Chemistry

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CHEMICALS

Order code	Description	Normal price	
	Acetone LR (Propanone LR) ($(CH_3)_2CO$)		
52-7400	500ml	£3.96	
52-7401	1L	£4.50	
52-7402	2.5L	£9.36	•
	Agar Fine Powder		
52-7403	100g	£7.11	
52-7404	250g	£14.31	
	Albumen Egg Powder		
52-7405	100g	£5.40	
52-7406	250g	£13.10	
52-7407	Aluminium Oxide LR (Alumina) (Al_2O_3) 500g	£4.77	
52-7408	Aluminium Powder Fine (Al) 500g	£16.29	
52-7616	4-Aminobenzoic Acid as Alternative 100G N	£12.50	
52-7409	Di-Ammonium Iron (II) Sulphate 6-Water LR (Ferrous Ammonium Sulphate) ($(NH_4)_2SO_4FeSO_{3.6}H_2O$) 500g	£19.17	
52-7410	Ammonium Nitrate LR (NH_4NO_3) 500g	£4.95	
	Amylase (Bacterial Source)		
52-7411	10g	£5.40	
52-7412	25g	£5.90	
52-7413	100g	£19.00	
	Benedict's Reagent (Qualitative)		
52-7415	500ml	£2.70	
52-7414	2.5L	£9.99	
52-7615	Benzoic Acid 100g N	£2.50	
52-7614	Benzyl Alcohol (Phenylmethanol), (Phenylcarbinol) 200ml N	£5.00	
52-7416	Bicarbonate Indicator 500ml	£2.79	
52-7417	Biuret Reagent (Working) Solution 500ml	£2.97	
52-7424	Buffer Solution Borate pH8 500ml	£3.06	
52-7418	Buffer Solution Borate pH10 500ml	£3.06	
52-7419	Buffer Solution Phthalate pH3 500ml	£3.06	
52-7420	Buffer Solution Phthalate pH4 500ml	£3.06	
52-7421	Buffer Solution Phthalate pH5 500ml	£3.06	
52-7422	Buffer Solution Phosphate pH6 500ml	£3.06	
52-7423	Buffer Solution Phosphate pH7 500ml	£3.06	
52-7425	Buffer Tablets pH4 (Phthalate) Pack of 50	£10.28	
52-7426	Buffer Tablets pH7 (Phosphate) Pack of 50	£10.28	
52-7427	Buffer Tablets pH9.2 (Borate) Pack of 50	£10.28	
52-7586	Butan-1-ol 500ml N	£4.75	
52-7587	Butan-2-ol 500ml N	£7.00	
52-7588	Butanal 100ml N	£6.00	
52-7618	Butane-1,4-Diamine, (1,4-Diaminobutane), C4H12N 250g N	£19.50	
52-7589	Butanoic Acid 100ml N	£9.00	
52-7428	Calcium Chloride Fused Granular Size 2.0- ($CaCl_2$) 500g	£3.37	
52-7590	Calcium Carbide 100g N	£5.00	
	Calcium Granules (Ca)		
52-7430	25g	£3.42	
52-7429	100g	£8.91	
52-7431	Calcium Sulphate LR (Plaster of Paris) ($CaSO_{4.1/2}H_2O$) 5kg	£10.71	
52-7432	Ceramic Fibre Wool (Mineral Wool) 500g	£5.58	
	Citric Acid Crystals LR ($HOC(COOH)(CH_2COOH)_2.H_2O$)		
52-7433	500g	£4.68	
52-7434	3kg	£13.14	
	Copper (II) Carbonate Basic LR (Cupric Carbonate Basic) ($CuCO_3Cu(OH)_2$)		
52-7436	250g	£7.72	
52-7435	500g	£12.45	
52-7437	3kg	£58.86	
52-7617	Copper (II) Chloride 100g N	£2.50	
52-7438	Copper (II) Chloride 2 Water LR (Cupric Chloride) ($CuCl_2.2H_2O$) 250g	£7.56	
	Copper (II) Oxide Powder LR (Cupric Oxide) (CuO)		
52-7439	500g	£13.50	
52-7440	250g	£8.28	
	Copper (II) Sulphate 5 Water LR (Cupric Sulphate) ($CuSO_{4.5}H_2O$)		
52-7442	500g	£5.40	
52-7443	1kg	£8.28	
52-7441	3kg	£16.47	
	Copper (II) Sulphate Anhydrous LR (Cupric Sulphate Anhydrous) ($CuSO_4$)		
52-7444	250g	£9.09	
52-7445	500g	£15.84	

Order code	Description	Normal price	
	Copper Foil 0.10mm LR (Cu)		
52-7619	100g N	£4.58	
52-7446	250g	£11.97	
52-7447	500g	£22.59	
52-7448	Copper Powder Precipitated (Cu) 100g	£6.30	
52-7449	Copper Small Piecesun (Cu) 500g	£16.65	
52-7591	Cresol Red 5g N	£3.75	
	Cyclohexane LR (C_6H_{12})		
52-7450	500ml	£5.85	
52-7451	2.5l	£18.54	
52-7452	Cyclohexene LR (Tetrahydrobenzene) (C_6H_{10}) 250ml	£11.25	
52-7453	1,6-Diaminohexane 5% Aqueous Solution 250ml	£6.75	
52-7454	1,6-Diaminohexane LR (Hexamethylenediamine) ($NH_2(CH_2)_6NH_2$) 25g	£5.94	
	2-6 Dichlorophenolindophenol (D.C.P.I.P.)		
52-7455	1g	£4.59	
52-7456	5g	£17.82	
52-7457	2-6 Dichlorophenolindophenol Tablets (D.C.P.I.P.) Pack of 10	£6.30	
	Ethanol Absolute 99/100% (Ethyl alcohol) (C_2H_5OH)		
52-7459	100ml	£11.16	
52-7458	500ml	£40.50	
52-7460	Fehling's Solution No 1 500ml	£3.60	
52-7461	Fehling's Solution No 2 500ml	£4.95	
52-7462	D (–) Fructose (D-Laevulose) ($C_6H_{12}O_6$) 100g	£3.15	
52-7463	D (+) Galactose Anhydrous LR ($C_6H_{12}O_6$) 25g	£8.55	
52-7464	D-Glucose Anhydrous LR (Dextrose) $C_6H_{12}O_6$) 500g	£4.68	
52-7465	D-Glucose Monohydrate LR (Dextrose) ($C_6H_{12}O_6H_2O$) 500g	£3.51	
52-7592	Di(dodecanoyl)Peroxide/ Di-Lauroyl Peroxide 10g	£4.75	
52-7593	Eosin y 24050/Acid Red 87 25g	£12.00	
	Glycerol (Glycerine) LR (Propane-1,2,3-Triol) ($HOCH_2CH(OH)CH_2OH$)		
52-7466	500ml	£8.10	
52-7467	2.5L	£22.50	
52-7468	Hydrochloric Acid 0.1M (0.1N) Standard Solution (HCl) 2.5l	£7.02	
	Hydrochloric Acid 1M (N) Standard Solution (HCl)		
52-7469	1L	£4.41	
52-7470	2.5l	£8.64	
	Hydrochloric Acid 2M (2N) Standard Solution (HCl)		
52-7471	1L	£4.41	
52-7472	2.5l	£7.38	
52-7473	Hydrochloric Acid 36% AR (HCl) 1L	£5.40	
	Hydrochloric Acid 36% LR (HCl)		
52-7474	1L	£4.90	
52-7475	2.5L	£9.09	•
	Hydrogen Peroxide 100 Volume (H_2O_2)		
52-7476	500ml	£4.00	
52-7477	1L	£5.50	
52-7478	2L	£11.40	•
52-7479	Hydrogen Peroxide 20 Volume (H_2O_2) 2l	£6.48	
52-7480	Iodine Resublimed LR (I2) 100g	£13.50	
52-7481	Iodine Solution with 1% Potassium Iodide 500ml	£4.31	
52-7482	1-Iodobutane LR (Butyl Iodie) ($CH_3(CH_2)_3I$) 25ml	£11.70	
52-7483	Iron (II) Sulphate 7-Water LR (Ferrous Sulphate) ($FeSO_{4.7}H_2O$) 500g	£9.60	
52-7620	Iron (III) Nitrate 250g N	£5.50	
52-7484	Iron (III) Nitrate 9 - Water LR (Ferric Nitrate) ($Fe(NO_3)_{3.9}H_2O$) 500g	£9.50	
52-7485	Iron (III) Oxide Calcined LR (Ferric Oxide) (Fe_2O_3) 500g	£4.41	
	Iron Filings Fine (Fe)		
52-7486	500g	£3.15	
52-7489	3kg	£9.00	
	Iron-Filings Coarse (Fe)		
52-7487	500g	£3.15	
52-7488	3kg	£9.00	
52-7490	Iron-Powder, Reduced By Hydrogen (Fe) 500g	£14.04	
52-7613	Isoamyl (Isopentyl) Alcohol 200ml N	£3.90	
52-7491	L-Ascorbic Acid (Vitamin C) (C6H8O6) 100g	£4.90	
52-7621	Lead (II) Nitrate 250g N	£8.80	

• = SUBJECT TO SURCHARGE

Order code	Description	Normal price	
52-7492	Lead (II) Nitrate LR ($Pb(NO_3)_2$) 500g	£11.79	
52-7596	Lead Carbonate 250g N	£8.90	
52-7493	Lead Foil LR 0.5mm (Pb) 500g	£8.19	
52-7494	Lime Water (Calcium Hydroxide Solution) 2.5l	£5.85	
	Lipase		
52-7495	10g	£6.48	
52-7496	25g	£12.87	
52-7497	Lithium Chloride Anhydrous LR (LiCl) 100g	£7.74	
52-7498	Lithium Metal in Liquid Paraffin (Li) 10g	£13.50	•
52-7499	Luminol (3-Aminopthalhydrazide) ($NH_2C_6H_3.CO.NH.NH.CO$) 1g	£9.18	
	Magnesium Powder (Mg)		
52-7500	100g	£6.75	•
52-7501	500g	£23.58	•
52-7502	Magnesium Ribbon LR (Mg) 25g	£3.69	
52-7503	Magnesium Sulphate 7-Water LR ($MgSO_{4.7}H_2O$) 1kg	£4.25	
52-7504	Maltose LR ($C_{12}H_{22011}.H_2O$) 100g	£10.08	
52-7505	Manganese (IV) Oxide, Precipitated LR (MnO_2) 250g	£7.20	
52-7506	Manganese (IV) Oxide - Powder (Manganese Dioxide) (MnO_2) 500g	£12.15	
52-7507	Marble Chips 4-6mm ($CaCO_3$) 3kg	£6.30	
52-7508	Marble Chips Medium - Large ($CaCO_3$) 3kg	£6.30	
52-7622	Methanal 100ml N	£1.45	
52-7597	Methannoic Acid 250ml N	£2.75	
52-7509	Methanol LR (Methyl alcohol) (CH_3OH) 500ml	£2.88	
52-7510	Methylated Spirit Industrial 98/99% W/W (C_2H_5OH & CH_3OH) 2.5l	£7.38	•
52-7511	Methylated Spirit Mineralised (Blue) (C_2H_5OH & CH_3OH) 2.5l	£7.20	•
52-7585	2-Methylpropan-1-ol (Isobutyl alcohol) 100ml N	£2.20	
52-7598	Methyl Salicylate (Oil of Wintergreen) 100ml N	£4.19	
	N-Hexane LR (Lq 1L) ($CH_3(CH_2)_4CH_3$)		
52-7512	100ml	£3.42	
52-7513	500ml	£10.80	
52-7599	Octan-1-ol 250ml N	£9.00	
52-7514	Oil Crude Synthetic (CLEAPSE formulation) 500ml	£9.00	
52-7600	Orcein Acetic 100ml N	£8.00	
52-7601	Phenol Red Indicator 5g N	£4.25	
	Phenolphthalein 1% Solution		
52-7516	100ml	£2.16	
52-7515	500ml	£4.14	
52-7517	Phenyl Salicylate LR (Salol/Phenyl-2-Hydroxybenzoate) ($C_6H_4(OH)COOC_6H_5$) 250g	£16.38	
52-7602	Phenylethene (Styrene) 250ml N	£6.75	
52-7603	Phosphoric Acid 250ml N	£3.90	
52-7518	Polyvinyl Alcohol (Ethenol) (CH_2 CHOH)n 250g	£10.00	
52-7519	Potassium Bromide LR (KBr) 500g	£13.86	
52-7520	Potassium Carbonate Anhydrous LR (K_2CO_3) 500g	£7.56	
52-7623	Potassium Chlorate 100g N	£3.90	
52-7521	Potassium Chlorate (V) LR ($KClO_3$) 500g	£20.48	
52-7522	Potassium Chloride LR (KCl) 500g	£5.58	
52-7624	Potassium Dihydrogen Phosphate 250g N	£2.90	
52-7523	Potassium Dihydrogen Phosphate (V) LR (KH_2PO_4) 500g	£6.30	
	Potassium Iodide LR (KI)		
52-7524	100g	£9.90	
52-7525	500g	£41.40	
	Potassium Manganate (VII) LR (Potassium permanganate) ($KMnO_4$)		
52-7526	500g	£7.11	
52-7527	1kg	£11.97	
52-7625	Potassium Nitrate 250g N	£2.50	
52-7528	Potassium Nitrate LR (KNO_3) 500g	£4.77	
	Propan-2-ol LR (1L) (iso-Propyl alcohol) ($(CH_3)_2CHOH$)		
52-7529	500ml	£4.32	
52-7530	2.5L	£11.70	•
	Propan-1-ol LR (1L) (n-Propyl alcohol) ($CH_3CH_2CH_2OH$)		
52-7531	500ml	£5.04	
52-7532	2.5L	£14.40	•
52-7626	Propanoic Acid 250ml N	£4.15	
52-7604	Propionaldehyde 100ml N	£6.25	
52-7533	Propionic Acid LR (Propanoic acid) (CH_3CH_2COOH) 500ml	£8.46	

Order code	Description	Normal price	
	Salicylic Acid LR (2-Hydroxybenzoic acid) ($C_6H_4OHCOOH$)		
52-7534	100g	£5.00	
52-7535	500g	£17.46	
52-7536	Sand Acid Washed 1kg	£4.14	
52-7605	Schiff's Aldehyde Testing Reagent 500ml N	£7.65	
52-7537	Sebacoyl Chloride 5% in Cyclohexane ($C_{10}H_{16}Cl_2O_2$) 100ml	£7.20	
52-7606	Silicone Gease 50g N	£9.95	
	Silver Nitrate LR ($AgNO_3$)		
52-7538	25g	£32.40	
52-7539	100g	£121.50	
52-7540	Sodium Acetate 3-Water LR (Sodium Ethanoate) ($CH_3COONa.3H_2O$) 500g	£5.40	
52-7541	Sodium Alginate 25g	£3.78	
	Sodium Carbonate Anhydrous LR (Na_2CO_3)		
52-7542	500g	£2.70	
52-7543	1kg	£3.96	
52-7544	3kg	£7.83	
	Sodium Chloride LR (NaCl)		
52-7545	500g	£2.25	
52-7546	1kg	£3.06	
52-7547	3kg	£4.23	
52-7548	Sodium Chloride Native Rock Salt (NaCl) 1kg	£3.15	
	Sodium Hydrogen Carbonate LR (Sodium bicarbonate) ($NaHCO_3$)		
52-7549	500g	£2.70	
52-7550	1kg	£3.96	
52-7551	3kg	£7.71	
52-7552	Di-Sodium Hydrogen Phosphate (V)-12-Water, ($Na_2HPO_{4.12}H_2O$) 500g	£10.26	
52-7553	Sodium Hydroxide 0.1M (0.1N) Standard Solution (NaOH) 2.5l	£6.66	
52-7554	Sodium Hydroxide 1.0M (1N) (NaOH) 2.5l	£8.10	
52-7555	Sodium Hydroxide 2M (2N) Standard Solution (NaOH) 2.5l	£8.64	
52-7556	Sodium Hydroxide Pearl 98-100% LR (NaOH) 500g	£4.50	
	Sodium Hydroxide Pellets LR (NaOH)		
52-7557	500g	£5.58	
52-7558	1kg	£8.73	
52-7627	Sodium Hypochlorite Solution 250ml N	£1.80	
	Sodium Hypochlorite Sol 10-14% (NaClO)		
52-7559	500ml	£4.80	
52-7560	1L	£5.00	
52-7561	2.5L	£10.00	
52-7562	Sodium Iodide LR (NaI) 100g	£9.45	
52-7608	Sodium Molybdate 50g N	£22.40	
52-7563	Sodium Tauroglycocholate (Bile Salts) 25g	£10.89	
52-7564	Di-Sodium Tetraborate 10-Water LR (Borax) ($Na_2B_{407.10}H_2O$) 500g	£4.41	
	Sodium Thiosulphate 5-Water LR ($Na_2S_2O_{3.5}H_2O$)		
52-7566	500g	£3.42	
52-7565	3kg	£9.63	
52-7567	Starch Soluble LR 500g	£5.04	
52-7568	Sucrose LR (Cane sugar) ($C_{12}H_{22}O_{11}$) 500g	£3.42	
52-7569	Sulphuric Acid 1M Standard Solution (H_2SO_4) 1l	£4.86	
52-7570	Sulphuric Acid 2M Standard Solution (H_2SO_4) 1l	£5.04	
	Sulphuric Acid 98% LR (H_2SO_4)		
52-7571	1L	£6.84	
52-7572	2.5l	£14.76	•
	Trypsin, From Beef Pancreas		
52-7573	10g	£13.50	
52-7574	25g	£27.72	
52-7575	Universal Indicator Ph 1- 14 500ml	£9.45	
	Universal Indicator Ph 4-11		
52-7577	100ml	£2.70	
52-7576	500ml	£4.77	
52-7578	Water Deionised (H_2O) 25L	£17.55	
52-7579	Yeast Dried Active 500g	£8.10	
52-7610	Zinc Bromide 100g N	£15.95	
52-7612	Zinc Chloride 200g N	£2.60	
52-7580	Zinc Foil (Zn) 250g	£10.80	
52-7581	Zinc Granulated LR (Zn) 500g	£14.22	
52-7582	Zinc Nitrate ($Zn(NO_3)_{2.6}H_2O$) 250g	£8.73	
52-7611	Zinc Oxide 250g N	£3.80	
52-7583	Zinc Sulphate ($ZnSO_{4.7}H_2O$) 500g	£11.34	
52-7584	Zinc-Powder LR (Zn) 500g	£13.59	•

• = SUBJECT TO SURCHARGE

Fume Extraction

Air Filtration Spray Trap Units

These air filtration units are designed to be occasional 'spray traps' for studio/workshop cleanliness and operator protection from concentrations of airborne contaminants. The spray booths have two filters - a particulate (intake) filter and a carbon impregnated fibre filter. The particulate filter is a 3-stage graduated fibre filter with a high 'dust' holding capacity. The carbon filter assists in the reduction of solvent odours.

The units can be placed in two positions, either an upright position which is best for models and other three dimensional objects or a reclining position which is best for two dimensional artwork to be placed upon the filter. The small size of these units mean that they can be placed upon a desk, bench or carried on a trolley and the spray booths are ideal for use within art, graphics, hobby, modelling and craft environments for the filtration of aerosol adhesives, aerosol lacquers and fixatives and airbrush sprays applied to artwork of up to A2 size, solders,light grinding particles and dusts, cleaning solvents, etc.

- Quiet in operation
- Steel construction
- Dove grey finish
- Replaceable plastic spray/fume shield
- Back stand/carry handle
- Axial fans
- Sealed electrical wiring and switch, downstream of filters
- Brushless motor with external rotor
- UL, VDE and CSA approved

Technical specification

Model no.	BV300S	BV200S
Fan motor	230V 50Hz 40W	230V 50Hz 80W
Air volume	325m³/hr	650m³/hr
Air velocity filter face	0.5m/sec	0.5m/sec
Air velocity shield face	0.32m/sec	0.35m/sec
Noise level	59dB(A)	61dB(A)
Dimensions W x H x D	510 x 385 x 350mm (525mm reclining depth)	720 x 515 x 430mm (600mm reclining depth)
Weight	11kg	19kg
Order code	**87-5500**	**87-5501**

Model	Air volume cap.	Order code	1+
BV300S	325m³/hr	**87-5500**	256.00
BV200S	650m³/hr	**87-5501**	328.00

516889

Air Filtration Hoods and Spray Booths

These units have been designed to be used as spray booths in the studio/ classroom/workshop to protect operators and maintain environmental cleanliness and are ideal for art, graphics, design technology, crafts, modelling, etc. The spray booths use two filters for effective air filtration. The particulate (intake) filter is a 3-stage graduated fibre filter that has a high particle holding capacity. The second filter is a carbon type filter that assists in the reduction of solvent odours.

The design of these spray booths enable them to be used in one of two ways. 3D items such as models, PCBs, etc. may be placed onto the hood base for spraying, cleaning, sanding, etc. For artwork applications the hood enclosure will accept standard drawing boards (A2 **87-5502**, A1 **87-5503**) which may be placed at an angle for efficient overspray capture.

- Quiet in operation
- Steel construction
- Dove grey finish
- Fan/filter unit mounted onto hood enclosure
- Axial fans
- Sealed electrical wiring and switch, downstream of filters
- Brushless motor with external rotor
- UL, VDE and CSA approved

Technical specification

Model no.	BV200H	BV100H
Fan motor	230V 50Hz 40W	230V 50Hz 80W
Air volume	325m³/hr	650m³/hr
Air velocity filter face	0.5m/sec	0.5m/sec
Air velocity shield face	0.25m/sec	0.25m/sec
Noise level	59dB(A)	61dB(A)
Dimensions W x H x D	680 x 600 x 530mm	960 x 740 x 720mm
Weight	20kg	35kg
Order code	**87-5502**	**87-5503**

Model	Air volume cap.	Order code	1+
BV200H	325m³/hr	**87-5502**	549.00
BV100H	650m³/hr	**87-5503**	759.00

516890

Air Extraction Unit

This air extraction unit uses a flexi-duct to carry away extracted air, either via a standard domestic vent or simply placed through a partially opened window, making the unit very portable and convenient. The unit can be used in one of two positions, either upright for 3D items such as models, PCBs, etc. where they can be rested on the surface and where solder fumes and general solvent and gas extraction is performed. The second position the unit can be employed is in a reclining position which is designed for accommodating artwork up to A3 size for spray mounting, aerosol lacquers and fixatives, etc.

Filtration is performed by a particulate (intake) filter that is a 3-stage graduated fibre filter that has a high particle holding capacity, giving the filter a long operational life. Extraction is then performed via the 2m x ø100mm flexi-duct. This filtration/extraction process vastly reduces and/or eliminates operator exposure to potentially hazardous substances.

- Steel construction
- Dove grey finish
- Replaceable plastic spray/fume shield
- Particulate filter
- Carry handle
- Can be assembled in seconds
- Centrifugal blower
- Sealed electrical wiring and switch, downstream of filters
- Brushless motor with external rotor
- UL, VDE and CSA approved

Technical specification

Model no.	BV300S-D
Fan motor	230V 50Hz 105W
Air volume	355m³/hr
Air velocity filter face	0.6m/sec
Air velocity shield face	0.5m/sec
Noise level	58dB(A)
Flexi-duct	2m x ø100mm
Dimensions W x H x D	565 x 390 x 430mm
Weight	10kg
Order code	**87-5504**

Model	Air volume cap.	Order code	1+
BV300S-D	355m³/hr	**87-5504**	239.00

516891

Scheduled orders

Rapid will store your order FREE OF CHARGE and then deliver the required amount along with an individual invoice on your specified dates.

Fax your scheduled order and required dates to:

01206 751188

Air Extraction Spray Booths

These air extraction units are ideally suited to use as spray booths for a wide variety of applications in the studio, classroom or workshop. There is a choice of air volume capacities to cater for application and useage and all odours and gases exrtacted are vented to atmosphere via flexi-duct so that the working environment can be kept free of contaminants. The design of the units mean that they are suitable for use with objects such as: prototypes, models, ceramic parts, PCBs, etc. Drawing boards, either A2 (**87-5505**) or A2 and A1 (**87-5506**), can be accomodated, being put in at an angle for efficient overspray capture.

Air extraction is carried out by centrifugal blowers via a three stage graduated fibre particulate filter that has a high particle holding capacity, ensuring long filter life. The filtered air is exhausted via flexi-ducts (1x for **87-5505** and 2x for **87-5506**) which may be either fixed toa standard domestic vent or placed through any convenient window. This dual process of extraction and filtration greatly reduces or eliminates operator exposure to contaminants and harmful airborne substances.

- Steel construction
- Dove grey finish
- Particulate filter
- Carry handle
- Can be assembled in seconds
- Centrifugal blower (2x for **87-5506**)
- Sealed electrical wiring and switch, downstream of filters
- Brushless motor with external rotor
- **UL, VDE** and **CSA** approved

Technical specification

Model no.	BV200H-D	BV100H-D
Fan motor	230V 50Hz 105W	230V 50Hz 210W
Air volume	355m³/hr	710m³/hr
Air velocity filter face	0.6m/sec	0.6m/sec
Air velocity hood face	0.25m/sec	0.27m/sec
Noise level	58dB(A)	60dB(A)
Flexi-duct	2m x ø100mm	2x 2m x ø100mm
Dimensions W x H x D	680 x 600 x 450mm	960 x 740 x 620
Weight	21kg	37kg
Order code	**87-5505**	**87-5506**

Model	Air volume cap.	Order code	1+
BV200H-D	355m³/hr	**87-5505**	669.00
BV100H-D	710m³/hr	**87-5506**	998.00

516892

Desk/Bench Top Fume Cabinets

These fume cabinets are for use in situations where external venting is impractical but where there is a need for contaminant capture and air filtration. Especially suitable for use in dental labs, for electronic design and rework, pharmaceutical labs, design technology, science and other industrial and educational uses. Applications for which the fume cabinets are ideal include: filtration of fumes and capture of contaminant particles from monomers, adhesives, hazardous powders/particulates, conformal coatings, resins, sealants, solders, light grinding particles and dust, organic solvents, etc.

In operation the fume cabinet has two stages of filtration. The particulate (intake) filter is a 3-stage graduated fibre filter that has a high dust holding capacity, prolonging its life. The second stage of filtration is by by a high grade bonded carbon filter (3.5kg **87-5513**, 7kg **87-5514**). The high performance of the fume cabinet is aided by a folding clear plastic fume shield that can be removed and stored if not required, reducing the footprint of the unit.

- Steel fan/filter casing
- Dove grey finish
- Folding clear petg plastic fume shield
- Particulate filter
- **87-5514** has dual airspeed function to facilitate higher vapour absorbtion
- Carry handle
- Can be assembled in seconds
- Centrifugal blower
- Sealed electrical wiring and switch, downstream of filters
- Brushless motor with external rotor
- UL, VDE and CSA approved

Technical specification

Model no.	BV500S-C	BV700S-C
Fan motor	230V 50Hz 105W	230V 50Hz 210W
Air volume	325m³/hr	650m³/hr
Air velocity filter face	0.50m/sec	0.55m/sec
Air velocity shield face	0.38m/sec	0.50m/sec
Noise level	60dB(A)	62dB(A)
Dimensions W x H x D	575 x 385 x 530mm	785 x 515 x 610mm
Weight	25kg	37kg
Order code	**87-5513**	**87-5514**

Model	Air volume cap.	Order code	1+
BV500S-C	325m³/hr	**87-5513**	1025.00
BV700S-C	650m³/hr	**87-5514**	1449.00

516893

BenchVent Fume Filtration Hoods and Cabinets

A range of circulatory fume filtration hoods and cabinets that are ideal for use where contaminant capture and filtration are required but where external venting is impractical. Two stages of filtration, hood lighting and a clear polycarbonate panel that helps protect the operator go towards making these fume cabinets suitable for the filtration of fumes, vapour and particulates emenating from: spray mount adhesives, conformal coatings and paints, monomers, hazardous powders and particulates, resins, sealants, solders, light grinding particles, organic solvents and cleaners, etc.

In addition to being ideal for 3D models, standard drawing boards may also be placed within the hood enclosure, A2 (**87-5515**) or A1 (**87-5516**). The large capacity of these units make them at home in dental/medical labs, pharmaceutical labs, design technology workshops, science in education, etc.

- Steel construction with dove grey finish
- Clear polycarbonate panel for protection
- Hood lighting
- Particulate filter
- Two-stage filtration process
- Sealed electrical wiring and switch, downstream of filters
- UL, VDE and CSA approved

Technical specification

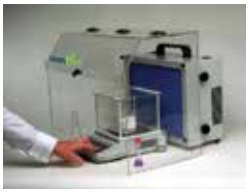
Model no.	BV660H-C	BV930H-C
Fan motor	230V 50Hz 105W	230V 50Hz 210W
Air volume	355m³/hr	710m³/hr
Air velocity filter face	0.50m/sec	0.57m/sec
Air velocity shield face	0.50m/sec	0.55m/sec
Noise level	60dB(A)	62dB(A)
Overall dimensions W x H x D	680 x 660 x 610mm	960 x 800 x 800mm
Weight	38kg	60kg
Order code	**87-5515**	**87-5516**

Model	Air volume cap.	Order code	1+
BV660H-C	355m³/hr	**87-5515**	1125.00
BV930H-C	710m³/hr	**87-5516**	1645.00

516894

New products
…added daily, check our website
www.rapidonline.com

Small Desktop Fume Cabinet



This fume cabinet is a small desktop unit that is ideal for use within dental labs/design technology workshops, pharmaceutical labs and other areas of the classroom and workshop. Filtration is carried out by a 15 to 20 micron pre-filter followed by a 3.5kg high grade bonded carbon filter for hydrocarbon (organic solvent, gas) adsorption. It is this process of filtration, adsorption and dilution that vastly reduces or eliminates operator exposure to potentially hazardous substances.

Additional features of this fume cabinet include a clear PETG plastic fume hood and a powerful radial blower. A Hinged lid, in the hood, assists in safely and easily positioning items such as weighing scales and the like. Activities such as the weighing and handling of potentially harmful powders/particultes, applying adhesives, cleaning solvents, soldering and using small grinding tools, etc. is carried out safely within the hood and the cleaned air is vented to atmosphere at the rear right of the cabinet.

- Small desktop fume cabinet for laboratory/workshop benchtop use
- Capacity 202m³/hr
- Particulate pre-filter followed by high grade bonded carbon filter for adsorption
- Clear PETG plastic fume hood
- Hinged lid to assist in positioning products
- Dove grey finished steel contruction
- Radial blower
- Sealed electrical wiring and switch, downstream of filters
- UL, VDE and CSA approved

Technical specification

Model no.	BV570H-C
Fan motor	230V 50Hz 60W
Air volume	202m³/hr
Air velocity filter face	0.5m/sec
Air velocity hood face	0.32m/sec
Noise level	58dB(A)
Dimensions W x H x D	570 x 465 x 335mm
Weight	13kg
Order code	**87-5517**

Model	Air volume cap.	Order code	1+
BV570H-C	202m³/hr	**87-5517**	769.00

516895

Fume Extraction Hoods and Cabinets

These fume filtration hoods are intended for use where external venting is required. The attached flexi-duct vents to atmosphere, either through a standard domestic vent or a convenient window. Filtration is carried out by a 3-stage graduated fibre filter with a high dust holding capacity that ensures a long filter life. This dual process of filtration and extraction means that operators and environments are protected from exposure to potentially hazardous substances.

The units may be used both for 3D items such as PCBs, models, etc. and 2D artwork, the units accepting standard drawing boards (A2 **87-5519**, A1 **87-5520**). A clear polycarbonate panel is mounted on the hood and hood lighting is also included. The whole unit can be assembled in seconds and may be placed on a desk, bench or trolley. Ideal for use in the workshop, dental/medical labs, design technology classroom, pharmaceutical lab, etc.

- **TechFlo** fume cabinets of 355 or 710m³/hr capacity
- Capture, contain, filter and expel for a cleaner, safer working environment
- Extraction cabinets vent to atmosphere via flexi-duct of 2m x ø100mm
- **87-5520** has two flexi-duct vents
- Three-stage particulate filter
- Can accomodate standard drawing boards
- Clear polycarbonate panel for protection
- Hood lighting
- Steel construction with dove gray finish
- Sealed electrical wiring and switch, downstream of filters
- **UL, VDE** and **CSA** approved

Technical specification

Model no.	BV660H-D	BV930H-D
Fan motor	230V 50Hz 105W	230V 50Hz 210W
Air volume	355m³/hr	710m³/hr
Air velocity filter face	0.60m/sec	0.60m/sec
Air velocity shield face	0.55m/sec	0.60m/sec
Noise level	58dB(A)	60dB(A)
Flexi-duct	2m x ø100mm	2x 2m x ø100mm
Dimensions W x H x D	680 x 600 x 530mm	960 x 740 x 720mm
Weight	26kg	44kg
Order code	**87-5519**	**87-5520**

Model	Air volume cap.	Order code	1+
BV660H-D	355m³/hr	**87-5519**	795.00
BV930H-D	710m³/hr	**87-5520**	1215.00

516896

Fume and Vapour Extraction Unit

A fume and vapour extraction unit that uses a 2m x ø100mm flexi-duct to vent harmful and unwanted vapours to either a standard domestic vent or a convenient window. Suitable for use within laboratory, workshop, classroom and anywhere where there is a need for the extraction of fumes and fine particles whilst handling: monomers, adhesives, hazardous powders, conformal coatings, resins, sealants, solders, light grinding particles and dusts, organic solvents, etc.

Filtration is carried out by a 3-stage graduated fibre filter that has a high dust holding capacity that prolongs the life of the filter. Performance of this fume cabinet is enhanced by the provision of a clear PETG plastic fume shield which is also removeable, reducing the footprint of the cabinet. The dual process of filtration and extraction together with the design and overall performance of the fume cabinet greatly reduces or eliminates operator exposure to potentially hazardous substances.

- Venting via 2m flexi-duct to atmosphere
- Clear folding plastic fume shield
- Carrying handle
- Use on desk, bench or trolley
- Simple assembly and use
- Particulate filter
- Steel fan/filter casing with dove grey finish
- Sealed electrical wiring and switch, downstream of filters
- **UL, VDE** and **CSA** approved

Technical specification

Model no.	BV550S-D
Fan motor	230V 50Hz 40W
Air volume	355m³/hr
Air velocity filter face	0.5m/sec
Air velocity hood face	0.32m/sec
Noise level	58dB(A)
Dimensions W x H x D	510 x 360 x 500mm
Weight	11kg
Order code	**87-5521**

Model	Air volume cap.	Order code	1+
BV550S-D	355m³/hr	**87-5521**	689.00

516897

Page 1154

Goggles

BenchVent Spare/Replacement Filters

A range of spare / replacement filters for use with BenchVent extraction and filtration systems.

- Please see Technical Specification for Model / Filter cross-reference chart

Technical specification

Model	10µ PST pads	Standard 5 micron	HEPA 99.95% to 0.3µ	Low Level Charcoal	Standard Activated Carbon	Low Level Fume	Spray Tanning
BV300S	PRE495	IFA3	HE495	CHA3	-	FKA3	-
BV200S	PRE705	IFA2	HE705	CHA2	-	FKA2	-
BV200H	PRE495	IFA3	HE495	CHA3	-	FKA3	-
BV100H	PRE705	IFA2	HE705	CHA2	-	FKA2	-
BV200H-D	-	IFA3	-	-	-	-	-
BV100H-D	-	IFA2	-	-	-	-	-
BV300S-D	-	IFA3	-	-	-	-	-
BV500S-D	-	IFA3	-	-	-	-	-
BV500S-C	PRE495	IFA3	HE495	-	AC200	-	-
BV570H-H	PRE405	-	HE495	-	-	-	-
BV570H-C	PRE405	-	-	-	AC200	-	-
BV700S-C	PRE705	IFA2	HE705	-	AC100	-	-
BV660H-C	PRE495	IFA3	HE495	-	AC200	-	-
BV930H-C	PRE705	IFA2	HE705	-	AC100	-	-
BV660H-D	-	IFA3	-	-	-	-	-
BV930H-D	-	IFA2	-	-	-	-	-
BV500	-	IFA3	-	-	-	-	IFA3PT

Price each

Type	Order code	1+
495 x 372 x 23mm	**87-5535**	69.60
495 x 495 x 23mm	**87-5536**	72.00
705 x 502 x 47mm	**87-5537**	93.60
495 x 372 x 12mm	**87-5538**	16.00
495 x 495 x 12mm	**87-5539**	22.00
705 x 502 x 12mm	**87-5540**	31.20
495 x 372 x 23mm	**87-5541**	47.60
705 x 502 x 47mm	**87-5542**	68.00
495 x 495 x 23mm	**87-5543**	50.40
495 x 372 x 23mm	**87-5544**	36.80
705 x 502 x 47mm	**87-5545**	50.40

Price each – M0Q 6+

Type	Order code	6+
495 x 372 x 23mm	**87-5546**	3.20

Price each

Type	Order code	1+
705 x 502mm	**87-5547**	6.40
495 x 372 x 23mm	**87-5548**	32.00
705 x 502 x 47mm	**87-5549**	50.40
405 x 320 x 47mm	**87-5550**	72.80
495 x 372 x 23mm	**87-5551**	92.80
705 x 502 x 47mm	**87-5552**	127.20
405 x 320 x 73mm	**87-5553**	159.20
405 x 320 x 50mm	**87-5554**	87.20
585 x 450 x 50mm	**87-5555**	127.20

519008

Molecular Sets

molymod®

Molecular Model Sets – Organic

Molymod Molecular Model Sets are the original dual-scale, quality system of molecular and atomic models.

Scales: Open / Ball & stick models: 2.5cm / Angstrom, Closed / semi-space filling models: 1.5cm / Angstrom

Atom-parts: range from 17 to 23mm in diameter.

Bonds: Single bonds are represented by medium links (19mm) and multiple bonds by longer, flexible links (30mm). For compact models, bonds are represented by short links (2mm).

Valence: Represented by the number of holes: 1 hole (I), 2 holes (II), 3 holes (III), 4 holes (IV), 5 holes (IV), 6 holes (VI)

- Organic sets
- Available as teacher and student sets
- **Teacher Set contains 111 atoms:** 40 Hydrogen (I), 38 Carbon (II, III, IV, V), 12 Oxygen (II), 4 Nitrogen (IV), 2 Sulphur (II, IV), 4 Phosphorus (IV), 8 Halogen (I), 3 Metal (I, II), 18 Lone pair 2D paddles (6 pink, 6 purple, 6 beige) **Links:** 55 Medium grey, 25 Long flexible and 60 Short
- **Student set contains 50 atoms:** 20 Hydrogen (I), 12 Carbon (IV), 6 Oxygen (II), 4 Nitrogen (III, IV), 2 Sulphur (IV, VI), 1 Phosphorus (IV), 4 Halogen (I), 1 Metal (I) **Links:** 26 Medium grey, 12 Long flexible and 26 Short

Important notice: These products are designed for educational use and are only suitable for students 12 years and over.

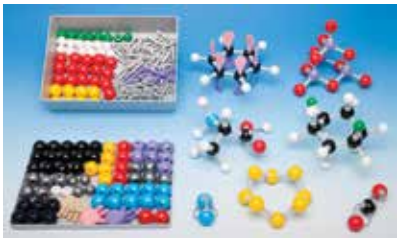
WARNING: CHOKING HAZARD - Small parts. Not for children under 3 years.

Type	Order code	1+
Teacher set 111 atoms	**52-0472**	32.73
Student set 50 atoms	**52-0473**	16.22

525538

molymod®

Molecular Model Sets Inorganic-Organic



Molymod Molecular Model Sets are the original dual-scale, quality system of molecular and atomic models.

Scales: Open / Ball & stick models: 2.5cm / Angstrom, Closed / semi-space filling models: 1.5cm / Angstrom

Atom-parts: range from 17 to 23mm in diameter.

Bonds: Single bonds are represented by medium links (19mm) and multiple bonds by longer, flexible links (30mm). For compact models, bonds are represented by short links (2mm).

Valence: Represented by the number of holes: 1 hole (I), 2 holes (II), 3 holes (III), 4 holes (IV), 5 holes (IV), 6 holes (VI)

- Inorganic - Organic sets
- Available as teacher and student sets
- **Teacher Set contains 108 atoms:** 14 Hydrogen (I, II), 20 Carbon (IV, V), 22 Oxygen (II, IV), 10 Nitrogen (III, IV), 13 Sulphur (II, IV, VI), 7 Phosphorus (III , IV, V,), 8 Halogen (I), 14 Metal (I, II, III, IV, VI), 18 Lone pair 2D paddles (6 pink, 6 purple, 6 beige) **Links:** 38 Medium grey, 12 medium purple, 36 Long flexible
- **Student set contains 52 atoms:** 14 Hydrogen (I), 6 Carbon (IV), 7 Oxygen (II, IV), 3 Nitrogen (III, IV), 2 Sulphur (II, VI), 2 Phosphorus (III, V), 6 Halogen (I), 8 Metal (I, II, III, IV, VI), 4 Brown (III, IV, V, VI), 3 Lone pair 2D paddles (beige) **Links:** 20 Medium grey, 5 Medium purple,12 Long flexible

Important notice: These products are designed for educational use and are only suitable for students 12 years and over.

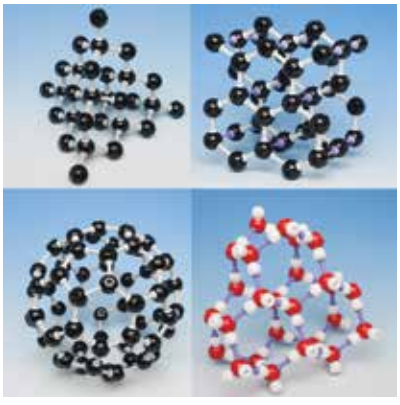
WARNING: CHOKING HAZARD - Small parts. Not for children under 3 years.

Type	Order code	1+
Teacher set 108 atoms	**52-0474**	32.53
Student set 52 atoms	**52-0475**	16.33

525539

molymod®

Crystal Structure Molecular Model Kits



A range of Molymod Molecular Model Sets showing the structure of various crystaline substances.

Scales: Open / Ball & stick models: 2.5cm / Angstrom, Closed / semi-space filling models: 1.5cm / Angstrom

Atom-parts: range from 17 to 23mm in diameter.

Bonds: Single bonds are represented by medium links (19mm) and multiple bonds by longer, flexible links (30mm). For compact models, bonds are represented by short links (2mm).

Valence: Represented by the number of holes: 1 hole (I), 2 holes (II), 3 holes (III), 4 holes (IV), 5 holes (IV), 6 holes (VI)

- **Kits available:**
- Diamond - 30 atoms
- Graphite - 45 atoms
- Buckminster Fullerene - 60 atoms
- Ice - 26 water units
- **Supplied singly**

Type	Order code	1+
Diamond	**52-0476**	11.46
Graphite	**52-0477**	15.81
Fullerene	**52-0478**	18.31
Ice 26 water units	**52-0479**	17.33

525540

molymod®

Molyorbital Molecular & Atomic Orbital Set – Benzene, Ethane, Ethene, Ethyne

This set consists of sufficient parts to make models of benzene, ethane, ethane and ethyne. These superbly designed models help to demonstrate both sigma-bonding and pi-bonding and therefore the concept of electron delocalisation and orbital hybridization.

- Spheres-2 carbon (6 hole), 8 carbon (5 hole), 2 carbon (4 hole), 18 hydrogen.
- Links - 9 carbon-carbon (oval shaped) sigmabonds, 18 carbon-hydrogen (pear shaped) sigma-bonds, 9 pi-bonds (21 pink and 21 purple pieces)
- Supplied as a **set of 4 model kits**
- **Molymod type MOS-900-4**

Type	Order code	1+
Ethane Ethene Ethyne	**52-0480**	30.55

525541

Timed delivery service

See page 1238 for table of charges

Cochranes of Oxford

Biochemistry Model Set (Orbit)

With 400 atoms and 395 bonds housed in a convenient compartmentalised box, the Orbit Biochemistry Class Set has a large enough quantity of atoms to enable you to construct multiple models for group activities. The contents allow you to cover topics commonly studied at A level (ages 17 to 18), college and university. These include amino acids; monosaccharides, glycerol, fatty acids, steroids, purines and pyrimidines, peptides, disaccharides, lipids, nucleosides, nucleotides, proteins, polysaccharides and nucleic acids. A 44 page booklet covers the above topics in detail.

- Compartmented box
- 400 atoms, 395 bonds
- Construct multiple models for group activities
- Allows you to cover topics commonly studied at A level (ages 17 to 18), college and university
- Includes amino acids; monosaccharides, glycerol, fatty acids, steroids, purines and pyrimidines, peptides, disaccharides, lipids, nucleosides, nucleotides, proteins, polysaccharides, nucleic acids
- 44 page booklet covers the above topics

Type	Order code	1+
Orbit Biochemistry	**52-7153**	38.75

502608

Cochranes of Oxford

Orbit Molecular Model Class Set

The Cochrane's Orbit Basic Structures Class Set consists of 515 atoms, 420 bonds and a 24 page booklet covering the structures that can be made, all stored in a compartmentalised box. The booklet covers structural chemistry typically studied at GCSE level (ages 15 to 16). Topics cover the structure of organic molecules, inorganic materials, crystals and metals. It also includes the structures of sulphur, sodium chloride, diamond, graphite, 12 coordinate metals, petroleum products, polymers, acids and bases, soap and detergents, nylon, water and ice.

- 515 atoms and 420 bonds
- Compartmented storage box
- Sufficient quantity of atoms for multi-group activities
- 24-page booklet covers structural chemistry typically studied at GCSE level (ages 15-16)
- Topics cover the structures of organic molecules, inorganic materials, crystals and metals

Type	Order code	1+
Basic Structures Sets	**52-7147**	45.65

502605

Cochranes of Oxford

Molecular Chemistry Set (Minit Organic and Inorganic) – 240 Atoms

Learn about molecular shape, stereochemistry, isomerism and bonding in organic and inorganic molecules and complex ions with this Minit Molecular set from Cochranes of Oxford. This advanced student set comes in a convenient pocket-sized plastic container cotaining 240 atoms, 220 bonds and a comprehensive instruction booklet.

- Learn about molecular shape, stereochemistry, isomerism and bonding
- Organic and inorganic molecules
- Complex ions
- Advanced student set in pocket-sized plastic container
- 240 atoms, 220 bonds and instruction booklet

Type	Order code	1+
240 atoms	**52-7149**	16.31

502606

Cochranes of Oxford

Orbit Organic and Inorganic Chemistry Set – 500 atoms

Housed in a compartmentalised box with 500 atoms and 320 bonds, this Orbit Organic and Inorganic Class Set from Cochranes of Oxfordenables you to construct multiple models and perform various activities. The contents allow you to cover topics commonly studied at A level (ages 17 to 18), college and university. These include saturated hydrocarbons, unsaturated hydrocarbons, cyclic hydrocarbons, functional groups in organic chemistry, benzene, polymerization, optical isomerism, simple inorganic molecules and complex ions. The set is supplied complete with a 48 page booklet covering the above topics.

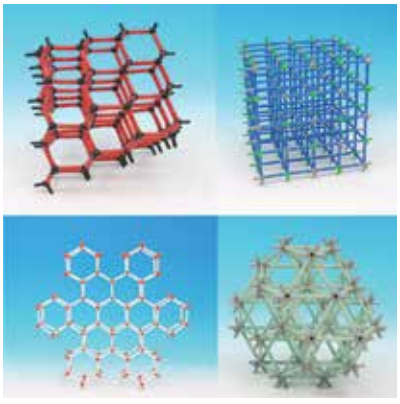
- Compartmented box
- 500 atoms, 320 bonds, 48 page booklet
- Multiple models and activities
- Covers topics commonly studied at A level (ages 17 to 18), college and university
- Includes saturated hydrocarbons, unsaturated hydrocarbons, cyclic hydrocarbons, functional groups in organic chemistry, benzene, polymerization, optical isomerism, simple inorganic molecules and complex ions

Type	Order code	1+
500 atoms	**52-7151**	38.75

502607

Cochranes of Oxford

Orbit ColourWave Model Kits



These Orbit Colourwave Model Kits from Cochrane's of Oxford allow students to build models that contain sufficient atoms to see the relationships between the structure and physical properties of a range of materials. The bonds are colour-coded to distinguish between covalent, ionic, Van der Waals and hydrogen bonding. Orbit Colourwave Model Kits are easy-to-build, low-cost, and make excellent teaching and display models. Students learn as they follow the building instructions and model description.

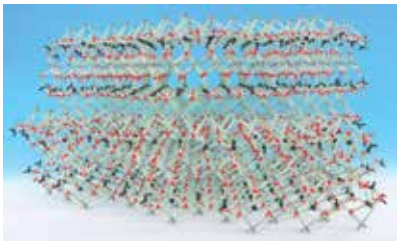
- Models contain sufficient atoms to show relationship between structure and physical properties
- Bonds are colour-coded to distinguish between covalent, ionic, Van der Waals and hydrogen bonding
- Easy-to-build
- Low cost
- Excellent teaching and display models
- Students learn as they follow the building instructions and model description

Type	Order code	1+
Diamond	**52-7157**	7.64
Graphite	**52-7159**	7.64
Carbon 60	**52-7161**	5.70
Sodium Chloride	**52-7163**	12.23
Ice	**52-7165**	7.64
Iron	**52-7167**	11.49
Magnesium	**52-7169**	11.49
Copper	**52-7171**	11.49

502610

Cochranes of Oxford

Minit Proview Model Mica Kit 1550 Atoms



The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

- Gives between 30/60 minutes of self tuition
- Shape: flake
- 1550 atoms
- **Cochranes type 0098**

Type	Order code	1+
Mica model kit	**52-7117**	163.66

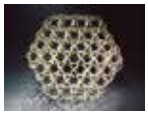
526311

New products

THOUSANDS of new products now available

Cochranes of Oxford

Minit Proview Model Beta Quartz Kit 1400 Atoms



The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

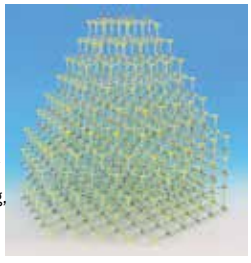
- Gives between 30/60 minutes of self tuition
- Shape: capped hexagonal prism
- 1400 atoms
- **Cochranes type 0096**

Type	Order code	1+
Beta quartz model kit	**52-7113**	69.23

526309

Cochranes of Oxford

Minit Proview Model Wurtzite Kit 1000 Atoms



The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

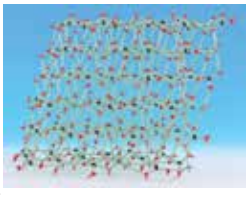
- Gives between 30/60 minutes of self tuition
- Shape: hexagonal prism
- 1000 atoms
- **Cochranes type 0090**

Type	Order code	1+
Wurtzite model kit	**52-7111**	77.98

526308

Cochranes of Oxford

Minit Proview Model Calcite Kit 540 Atoms



The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

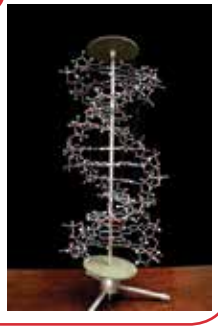
- Gives between 30/60 minutes of self tuition
- Shape: rhomb
- 540 atoms
- **Cochranes type 0097**

Type	Order code	1+
Calcite model kit	**52-7115**	29.45

526310

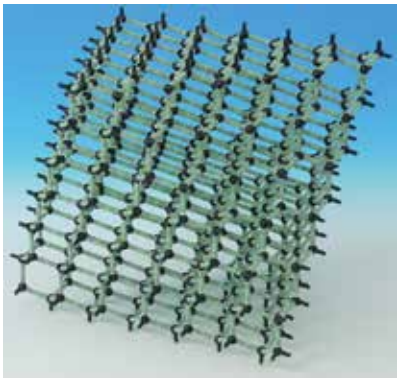
Page 475

DNA Model



Cochranes of Oxford

Minit ProView Model Diamond Kit 450 Atoms



This skeletal Diamond model kit is particularly suitable for showing the nature of the solid, being effectively transparent in depth.

Detailed instructions and a work card discuss the nature of the bonding, crystal structure, growth and physical properties.

- Provides up to 60 minutes of self tuition
- Shape: Octahedron
- Atoms: 450
- **Cochranes type 0087**

Type	Order code	1+
Diamond Model Kit	**52-7101**	36.71

526303

Cochranes of Oxford

Minit Proview Model Ice Kit 420 Atoms

A skeletal Ice model particularly suitable for showing the nature of the solid, being transparent in depth.

The model comes with full instructions and a work card discussing the nature of the bonding, crystal structure, growth and physical properties of ice.

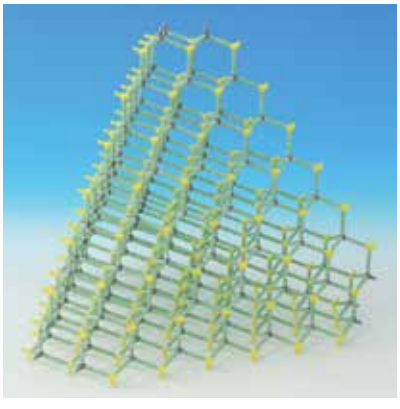
- Gives between 30 and 60 minutes of self-tuition
- Shape: extended prism to represent snowflake
- 420 atoms
- **Cochranes type 0093**

Type	Order code	1+
Ice model	**52-7107**	34.67

526306

Cochranes of Oxford

Minit Proview Model Zinc Blende Kit 360 Atoms



The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

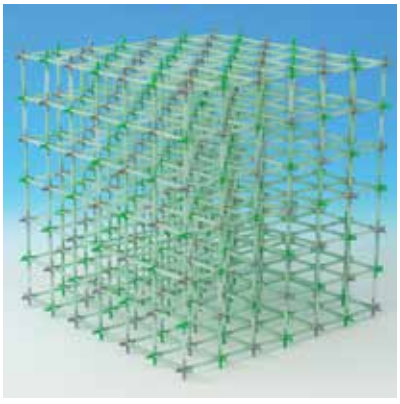
- Gives between 30/60 minutes of self tuition
- Shape: truncated tetrahedron
- 360 atoms
- **Cochranes type 0089**

Type	Order code	1+
Zinc Blende Model kit	**52-7109**	33.13

526307

Cochranes of Oxford

Minit Proview Model NaCl (Sodium Chloride) Kit – 350 Atoms



The skeletal design of this Sodium Chloride model kit is particularly suitable for showing the nature of the solid, being uniquely transparent in depth.

The included instructions and work card discuss the nature of the bonding, crystal structure, growth and physical properties.

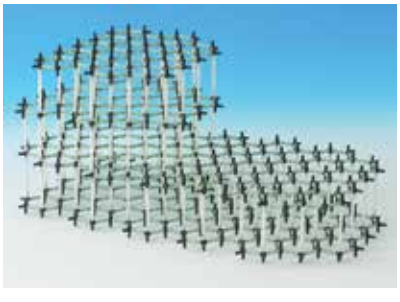
- Gives between 30/60 minutes of self tuition
- Shape: Cube
- 350 atoms
- **Cochranes type 0091**

Type	Order code	1+
Sodium Chloride Model	**52-7105**	34.67

526305

Cochranes of Oxford

Minit Proview Model Graphite Kit 350 Atoms



This skeletal Graphite model is particularly suitable for showing the nature of the solid as it is effectively transparent in depth.

The Graphite model is supplied with full instructions and a work card that discusses the nature of the bonding, crystal structure, growth and physical properties.

- Provides 30 / 60 minutes of self-tuition
- Shape: 4 layers to represent flake
- Atoms: 350
- **Cochranes type 0088**

Type	Order code	1+
Graphite model	**52-7103**	34.67

526304

No minimum order value
UK mainland only

Tel: 01206 751166 Fax: 01206 751188

Cochranes of Oxford

Orbit Proview Model Magnesium Kit 190 Atoms

The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

- Gives between 30/60 minutes of self tuition
- Shape: hexagonal close packed irregular grain
- 190 atoms
- **Cochranes type 0064**

Type	Order code	1+
Magnesium model kit	**52-7121**	75.47

526313

Cochranes of Oxford

Orbit Proview Model Copper Kit 180 Atoms

The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

- Gives between 30/60 minutes of self tuition
- Shape: Orbit, Cubic Close Packed (Face Centred Cubic) Irregular grain
- 180 atoms
- **Cochranes type 0065**

Type	Order code	1+
Copper model kit	**52-7123**	75.47

526314

Cochranes of Oxford

Orbit Proview Model Iron Kit 140 Atoms

The skeletal model type is particularly suitable to show the nature of the solid, being uniquely transparent in depth.

You also receive full instructions and work card discussing the nature of the bonding, crystal structure, growth and physical properties

- Gives between 30/60 minutes of self tuition
- Shape: body centred cubic irregular grain shape
- 140 atoms
- **Cochranes type 0063**

Type	Order code	1+
Iron model kit	**52-7119**	27.53

526312

Cochranes of Oxford

Carbon Nanotube Molecular Model 260 Atoms

Carbon nanotubes are currently one of the most intensively studied nanomaterials with their unique molecular structure resulting in several potential exciting applications in current day nanoscience.

Using this kit you can make a graphene sheet, carbon nanotube, carbon 60 (buckyball) and related structures with up to 260 carbon atoms.

- Instructions show how the carbon atoms can be arranged to illustrate the different symmetries of carbon rings in the nanotube to create the chair, zigzag and chiral structures
- The kit uses the Minit molecular building system
- Contains 260 atoms - enough to make a nanotube model 50cm long
- **Cochranes type 1401**

Type	Order code	1+
Carbon Nanotube	**52-7125**	21.37

526315

Classifying Materials

RVFM

12-piece Density Identification Set

A density identification set consisting of twelve different 12.7mm (½in.) diameter specimens of varying lengths and materials, supplied in a wooden storage block.

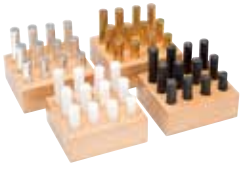
- Set includes cylinders of aluminium, brass, copper, glass, hard rubber, Delrin, PVC, acrylic, Teflon, Nylon, poplar and oak
- **Supplied as a set of 12**

Type	Order code	1+
Density materials	**06-2163**	22.50

534101

RVFM

48-piece Density Samples Set



A set of 48, 12.7mm (½in.) diameter cylinders, consisting of 4 sets of 12 cylinders of the same material, but with varying lengths, each stored in a wooden base.

- The 4 materials are aluminium, brass, PVC and polypropylene
- **Supplied as a set of 48**

Type	Order code	1+
Density samples	**06-2165**	69.95

534102

RVFM

Density Set

A set of ten 25.4mm (1in.) cubes of different materials in a handy storage box.

Each cube by definition has identical volume but widely differing weight.

- Materials are: Acrylic plastic, Aluminum, Brass, Copper, Nylon, Oak, Pine, Poplar, PVC and Steel
- **Supplied as a set**

Type	Order code	1+
Density set	**06-2162**	20.99

538888

RVFM

Density Identification Set

This set consists of specimens of 15 different types of materials. Its aim is to challenge students to identify materials by measuring their mass, length and volume to determine their density.

- Sturdy storage base
- 1 sample each of: walnut, oak, maple, polypropylene, polyethylene, polyamide, acrylic, polyurethane, phenolic, polyvinylchloride (PVC), acetyl, teflon, aluminium, brass and copper
- Samples are stamped with a letter code for easy identification
- Instructions included

Type	Order code	1+
Density ID set	**06-2164**	26.88

538889

RVFM

Solid Materials Kit

A set of 34 blocks of different sizes and materials for the study and comparison of physical properties.

- Two blocks of each 17 types
- 50 x 40 x 30mm blocks of softwood, hardwood, paraffin wax, aluminium, iron and polystyrene
- 20 x 20 x 100mm blocks of perspex, glass, slate, aluminium, softwood and marble
- 50 x 50 x 20mm lead block
- 50 x 50 x 80mm aluminium block
- 50 x 50 x 200mm hardwood block
- 20 x 20 x 50mm brass block
- 40 x 40 x 20mm iron block

Type	Order code	1+
Solid materials	**06-6942**	96.49

079619

RVFM

Mole Set

The four specimens in this set will help explain to students the concept of mole.

The Mole Set contains four element specimens: Copper, Iron, Zinc and Aluminum. Each sample contains one mole (6.02 x 1023 atoms) of the element.

- Helps to explain the concept of mole
- Each sample contains 1 mole (6.02 x 1023 atoms)
- Set contains specimens of Copper, Iron, Zinc and Aluminium

Type	Order code	1+
Mole set	**06-2161**	13.75

534077

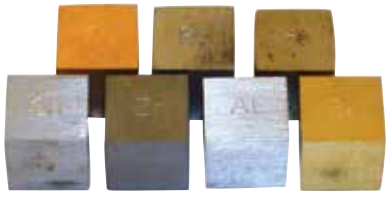
Free Delivery*

on all orders over £30 (excl. VAT)
(UK mainland only)

* See Terms & Conditions for full details

RVFM

Metal Cubes



A set of various metal cubes.

- Brass, lead, iron, copper, aluminium, zinc and tin cubes
- Cube size: 20mm
- Supplied in **sets of 7**

Type	Order code	1+
20mm metal cube set	**06-6936**	20.89

082560

Metal Cube Set

This set of metal cubes includes copper, brass, aluminium, mild steel, stainless steel and bronze cubes.

- Ideal for experiments to demonstrate magnetic properties and classifications of different metals
- Supplied in **packs of 6** x 20mm cubes

Type	Order code	1+
Metal cube set	**06-0596**	19.95

072040

RVFM

Metal Cubes Set with Hooks

An assorted set of metal cubes with hanging hooks, ideal for mass and density investigations.

- 20mm cubes
- Brass, lead, copper, iron, aluminium, zinc and tin
- Supplied as an **assorted set of 7**

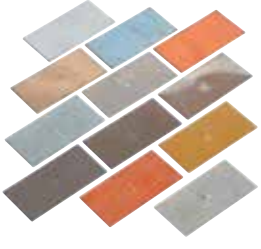
Type	Order code	1+
Cube set with hooks	**06-6938**	19.95

079617

RVFM

Science Metal Strips (Set of 12)

This metal strip set includes strips of soft aluminium, hard aluminium, magnetic stainless steel, non-magnetic stainless steel, zinc, zinc plate, nickel silver, bronze, galvanised steel, mild steel, copper and brass.



- All metals listed are stamped with a letter to help identify each metal - see Technical Specification
- Ideal for experiments to demonstrate magnetic properties and classifications of metals
- Strip size: 50 x 25mm
- Supplied in **packs of 12**

Technical specification

Letter	Material
A	Soft Aluminium
B	Brass
C	Copper
D	Mild Steel
E	Magnetic Stainless Steel
F	Non-Magnetic Stainless Steel
G	Galvanized Steel
H	Hard Aluminium
I	Phosphor Bronze
J	Nickel Silver
K	Zinc-plated Mild Steel
L	Zinc

Type	Order code	1+
Metal strip set	**06-0595**	7.39

072038

Magnetic Rubber Sheets

These magnetic rubber sheets can be used for a variety of different applications.

- Easy to cut with scissors into different shapes and designs
- Will stick to any magnetic metal surface
- Has a write-on, wipe-off surface for use with dry-wipe marker pens
- Supplied in **packs of 4** assorted colours: red, yellow, blue and green
- Sheet size: 300 x 50 x 0.6mm

Type	Order code	1+
Magnetic rubber sheets	**06-0594**	3.27

072037

Burners & Stands

RVFM

Tripod High Iron Stand

High iron stand.

- Dimensions: 125 x 200mm

Type	Order code	1+
Tripod	**52-0124**	5.95

066641

RVFM

Laboratory Tripod

This triangle top tripod is an essential for all science labs.

- Steel construction
- Width of one side 130mm
- Height 200mm

Type	Order code	1+
Tripod	**52-0512**	4.29

072273

RVFM

Tripods

These tripods have a zinc plated circular top, attached to steel legs. The lower half of the diverging legs are bent, ensuring that the legs are parallel for maximum stability.

- Designed for use with laboratory burners
- Height 190mm
- Sheet metal triangular attachment on base

Type	Order code	1+
Tripod 190mm	**52-1320**	8.75

081811

RVFM

Economy Circular Tripod Stand

An economical laboratory tripod stand with a100mm diameter cast-iron top and an overall height of 150mm. The steel legs are bent out at the bottom for increased stability and increased area under the tripod. For increased safety the tripod's legs are fitted with anti-slip rubber feet.

- Economical
- 100mm diameter cast-iron top
- Height 150mm
- Steel legs are bent out at the bottom for increased stability and increased area under the tripod
- Fitted with anti-slip rubber feet

Type	Order code	1+
Circular tripod	**52-0511**	2.99

501642

RVFM

Economy Tripod Stand

An economical laboratory tripod stand with a 100mm triangular cast-iron top and an overall height of 150mm. The steel legs are bent out at the bottom for increased stability and increased area under the tripod. For increased safety the tripod's legs are fitted with anti-slip rubber feet.

- Economical
- 100mm triangular cast-iron top (each side is 100mm)
- Height 150mm
- Steel legs are bent out at the bottom for increased stability and increased area under the tripod
- Fitted with anti-slip rubber feet

Type	Order code	1+
Tripod stand	**52-0513**	2.99

501643

RVFM

NEW

Triangular Top Stainless Steel Tripods

These economical **laboratory tripods** are made from stainless steel and available in a choice of sizes. The legs are bent slightly outwards towards the feet for added stability.

- Length 125 or 200mm
- Legs fitted with rubber feet to avoid slipping
- Ideal for use in chemistry laboratory

Length	Order code	1+
125mm	**52-2140**	1.40
200mm	**52-2141**	1.85

549121

Tel: 01206 751166 Fax: 01206 751188

RVFM

Burner Stand with Wire Gauze

A rectangular metal frame with a wire mesh square fixed to the top.

- Gauze prevents direct flame contact with the container being heated
- Helps gradual and uniform heating
- Dimensions: 125 x 110 x 160mm

Type	Order code	1+
Stand with gauze	**06-6918**	2.69

079611

RVFM

Pipe Clay Triangles

These pipe clay triangles are ideal for chemistry experiments.

- Can withstand high temperatures
- Available in 50mm or 63mm diameters

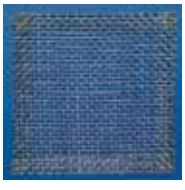
Type	Order code	1+
50mm pipe clay triangle	**52-0434**	0.49
63mm pipe clay triangle	**52-0436**	3.74

072247

RVFM

Wire Gauze

Durable wire gauze, ideal for use with tripods and bunsen burners.



- Gauze is made of woven 10 mesh galvanized iron wire
- Turned edges prevent fraying
- Available in 125 x 125mm and 150 x 150mm sizes
- Supplied **singly** and in **packs of 10**

Type	Order code	1+
150 x 150 single	**06-6608**	0.66
125 x 125 Pack of 10	**06-6641**	5.69
150 x 150 Pack of 10	**06-6643**	6.49

300786

RVFM

NEW

Ceramic Plates

These cost-effective **ceramic plates** are ideal for use in the science laboraory wherever **high-temperature applications** are involved. Made from durable iron wire gauze these square plates have ceramic centres for thermal protection and longer life.

- Available in a range of sizes
- Contains no asbestos

Size	Order code	1+
100 x 100mm	**52-2148**	0.26
150 x 150mm	**52-2149**	0.40
200 x 200mm	**52-2150**	0.62

549124

Same day despatch
GUARANTEED!
On all orders for in-stock items placed between 8am and 7pm Monday to Friday

medline

Medline Becelec 2 with Bosshead, Clamp & Rod

The Medline Becelec 2 Electric Burner offers a unique replacement option to conventional gas bunsen burners. The high power electric heater of the Medline Becelec 2 combined with a reflective internal stainless steel bowl produces a concentrated stream of heat comparable with that of gas-powered bunsen burners.

For maximum flexibility, the Medline, Becelec 2 Electric Burner is supplied complete with retort rod, bosshead and clamp removing the need for a separate retort stand and fittings. A wire safety guard is also included which helps protect against accidental touching and can also act as a support for round-bottomed flasks.

Packing and carriage are FREE when you buy the Medline Becelec 2 from Rapid. If you need one quickly, select our Next Day Delivery option.

- Temperature range 37 to 920°C
- 130mm diameter heating area
- Power rating 500W
- Dimensions 310 x 200 x 110mm (L x W x H)
- Weight 1.7kg
- **Medline type Becelec 2**

Type	Order code	1+
Becelec 2	**52-0460**	169.99

500333

RVFM

Tea Light/Night Light Candles

These Tea Light Candles burn without producing smoke and provide a gentle heat for up to 2 hours. In the science laboratory they can be used as a cost-effective alternative to spirit lamps.

- Colour: white
- Weight 7g
- Supplied in **packs of 50**

Type	Order code	1+
Night light candles	**52-0189**	6.53

528350

MAJOR BRUSHES

Major Brushes Tea Light / Night Light Candles

Unscented paraffin and vegetable wax blend night light candles (tea lights) contained in pressed aluminium holders.

These Tea Light Candles burn without producing smoke and provide gentle light and heat for up to 4 hours. In the science laboratory they can be used as a low cost alternative to spirit lamps.

- Burn time approx. 4 hours
- Diameter 38mm
- Height 16mm
- Paraffin/vegetable wax blend
- Supplied in **packs of 20**

Never leave burning candles unattended.

Type	Order code	1+
Night light candles	**52-0845**	1.22

544655

SKLO

Spirit/Alcohol Lamps

These spirit lamps have a fluid capacity of 100ml.

- Wick is 8-9mm wide and 11cm long
- Spare wicks available

Type	Order code	1+
Lamp 100ml	**52-1022**	3.19
Spare wick, individual	**52-1026**	0.346

073143

RVFM

Spirit Lamp and Wicks

A glass spirit lamp with a metal wick holder and spare wick.

- 80ml Capacity
- Complete with plastic cap
- Wick is 7-8mm wide and 13cm long
- Spare wicks are also available separately in **packs of 10**

Type	Order code	1+
Alcohol burner	**52-9154**	11.53
Spare wicks	**52-9156**	6.39

082589

RVFM

Spirit Lamp Bulb

A glass spirit lamp that is bulb-shaped and has a metal wick holder.

- Screw-on type wick holder
- Glass top cover
- Superior quality
- Capacity 60ml
- Dimensions - height: 77.30mm; diameter: 67.50mm
- Cap: height - 47.4mm; Diameter - 40.3mm

Type	Order code	1+
Bulb spirit lamp	**52-1278**	3.49

081796

RVFM

Multi-angle Spirit Lamp

A glass, polyhedral spirit lamp that allows positioning of the flame at just the right angle for the task in hand.

- Constructed from heavy duty glass
- Complete with cap and one wick
- Dimensions: height - 89mm; width - 67.60mm; width of base - 48.25mm
- Cap: height - 22.65mm; diameter - 34mm

Type	Order code	1+
Multi-angle lamp	**52-1280**	2.55

081797

Page 1154

Safety Glasses

RVFM

Spirit Burner Lamp and Tripod

An alcohol burner and suitable tripod.

- Tip-resistant
- Stainless steel construction
- Adjustable woven wick
- Tank capacity 80ml
- Burn time approx. 60 minutes per refill depending on setting
- Stainless steel snuffer cap
- Tripod has 95mm top and is 70mm high

Tripod and lamp are supplied separately, not as a set.

Type	Order code	1+
Spirit burner lamp	**06-6625**	7.99
Tripod stand	**06-6626**	4.19

083039

RVFM

NEW

Stainless Steel Spirit Burner

This stainless steel **spirit burner** is ideal for use in laboratories in schools and colleges.

Type	Order code	1+
Spirit Burner	**52-2214**	4.99

549166

RVFM

Laboratory Bunsen Burner

Bunsen burners for use with natural gas and LPG.

- Nickel-plated burner tube
- Rotatable air regulator
- Enamelled pressed-steel base
- Cylindrical riffled connector
- Height 125mm (11mm model): 145mm (13mm models)
- Base diameter 80mm
- 8mm inlet
- Sturdy storage case
- Conforms to safety standards
- Natural gas type available with **11 and 13mm** barrel diameters
- **Edu-Lab types** (natural gas): **EDU1081** (11mm), **EDU078** (13mm) **and** EDU101 **(LPG)**

Type	Order code	1+
Natural gas 13mm	**52-0128**	7.19
LPG	**52-0130**	8.79

066643

RVFM

Bunsen Burners – Natural Gas and LPG

A range of Laboratory Bunsen Burners with models suitable for use with natural gas and LPG. The burners have nickel-plated burner tubes with a rotatable air regulator and an enamelled cast base for good stability. Natural gas models are available with 11 and 13mm barrel diameters. The LPG model has a barrel diameter of 13mm.

- Height: 125mm (11mm model): 140mm (13mm models)
- Base diameter 80mm
- Nickel-plated burner tube
- Rotatable air regulator
- Enamelled cast base
- Cylindrical riffled connector
- 8mm inlet

Technical specification

Type	Order code	Jet size
Natural gas 11mm	52-0153	0.65mm
Natural gas 13mm	52-0155	0.70mm
LPG 13mm	52-0157	0.45mm

Type	Order code	1+
11mm Natural Gas	**52-0153**	4.29
13mm Natural Gas	**52-0155**	4.99
13mm LPG	**52-0157**	4.99

501648

RVFM

Heat-Resistant Bunsen Burner Mat

Asbestos-free, heat-resistant bench mats, ideal for use under bunsen burners.

- Manufactured from calcium silicate
- Well finished edges
- Size 300 x 300mm
- Available **singly** and in **packs of 10**

Type	Order code	1+	10+
Single	**52-0127**	1.80	1.53
Pack of 10	**52-0125**	11.49	

081315

Rubber Tubing, Clamps & Connectors

RVFM

Rubber Tubing For Bunsen Burners

Rubber tubing for connecting Bunsen burners to the gas supply.

- Reinforced ends provide added strength and resist leaks
- Length approx. 1m

Type	Order code	1+
Bunsen tubing	**06-7032**	2.39

079639

RVFM

Rubber Tubing – Thin Wall

Rubber tubing for general laboratory use. The reduced wall thickness of this tubing makes it more flexible and economical in use.

- Rubber tubing for general laboratory use
- Suitable for use at lower pressures
- Flexible
- Economical
- Supplied in **10m lengths**

Technical specification

Bore Diameter (mm)	Wall Thickness (mm)	Order Code
6	1.5	52-0129
8	1.5	52-0133
10	2.0	52-0137
12	2.5	52-0139

Bore	Order code	1+
6mm	**52-0129**	6.45
8mm	**52-0133**	9.99
10mm	**52-0137**	14.35
12mm	**52-0139**	15.35

500178

RVFM

Rubber Tubing – Thick Wall

Rubber tubing for general laboratory use. The greater wall thickness of this tubing makes it suitable for use at higher pressures.

- Rubber tubing for general laboratory use
- Suitable for use at higher pressures
- Supplied in **1m lengths**

Technical specification

Bore Diameter (mm)	Wall Thickness (mm)	Order Code
6	3	52-0141
8	3	52-0143
10	3.5	52-0149
12.5	4.5	52-0151

Bore	Order code	1+
6mm	**52-0141**	3.32
8mm	**52-0143**	4.98
10mm	**52-0149**	2.25
12.5mm	**52-0151**	3.45

500179

RVFM

Rubber Tubing

Rubber tubing, ideal for connecting Bunsen burners to a gas supply.

- 8mm diameter
- 2mm wall thickness
- Supplied in **10m lengths**

Type	Order code	1+
Rubber tubing 10m	**52-0132**	11.25

076924

RVFM

Bunsen Burner Tube

Nitrile rubber with reinforced ends.

- Internal diameter 5mm
- Available in **600, 750** and **900mm lengths**
- **Supplied in packs of 10**

Type	Order code	1+
600mm tube	**06-6420**	39.99
900mm tube	**06-6424**	49.99

079046

MODELCRAFT

Silicone Hose 1000mm x 6mm

Silicone rubber tubing from Modelcraft, suitable for use in the laboratory, classroom or home in scientific experiments or for model making purposes.

- Tube 1000mm long, 6mm diameter
- 2mm bore

Type	Order code	1+
Silicon hose	**51-1718**	2.39

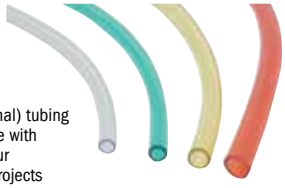
523806

Website
www.rapidonline.com

RVFM

Flexible PVC Tubing

This range of flexible PVC tubing is ideal for buggy and vehicle building.



- 3.5mm (internal) tubing is ideal for use with syringes in your pneumatics projects
- 4mm (internal) tubing makes great end stops, ensuring wheels remain in place on axles
- 5mm (internal) tubing is perfect for spacers, between wheels and chassis
- 6mm (internal) tubing, is essential when your vehicle has bigger axle requirements
- Low toxicity PVC
- Also useful for general purpose tubing and sleeving
- Supplied in **lengths of 25m**

Diameter tolerance ±0.5mm.

Type	Order code	1+
3.5mm clear	**37-1289**	5.19
4mm green	**37-1291**	7.59
5mm yellow	**37-1293**	9.29
6mm red	**37-1295**	13.69

300344

RVFM

Tube Connectors

These tube connectors are ideal for use with all 3mm tubing.

- Supplied **singly**

Type	Order code	1+
Tube connectors	**06-6090**	0.26

078973

RVFM

Tubing Connectors

Tubing connectors in a wide range of styles and sizes.

- Ribbed ends for leakproof grip
- Corrosion free polypropylene construction

Style	Size	Order code	1+
X	6mm	**52-1470**	0.39
X	8mm	**52-1472**	0.47
X	10mm	**52-1474**	0.61
L	6mm	**52-1476**	0.16
L	8mm	**52-1478**	0.33
T	6mm	**52-1534**	0.25
T	8mm	**52-1536**	0.27
T	10mm	**52-1538**	0.29
Y	6mm	**52-1540**	0.33
Y	8mm	**52-1542**	0.48

122494

RVFM

Tubing Clamps

A range of clamps for compressing flexible tubing. The range includes both Mohr's and Hoffmann types.

- Mohr's clamps are spring clips that are released by squeezing the wings together
- Hoffmann types are hinged to fit over the tubing and are operated by a fine screw to regulate the flow of gases and liquids

Technical specification

Order code	Type	Material	Size
06-6588	Mohr's	Nickel plated steel	8mm dia.
06-6594	Hoffmann	Nickel plated brass	22mm opening

Type	Order code	1+
Mohr's 8mm dia.	**06-6588**	8.95
Hoffmann 22mm	**06-6594**	1.59

078932

RVFM

Hoffman Side-Hinged Nickel-Plated Brass Clips

NEW

These side-hinged **Hoffman clips** are ideal for compressing flexible tubing to allow **varaible flow regulation**, particularly during chemistry experiments. These economical clips are available in a range of sizes.

- Made from nickel-plated brass

Size	Order code	1+
12mm	**52-2119**	1.4
17mm	**52-2120**	1.4
20mm	**52-2121**	1.4
25mm	**52-2122**	1.7
30mm	**52-2123**	1.75
40mm	**52-2124**	1.99

549114

Retort Stands & Clamps

RVFM

Economy Retort Stands

These economical retort stands have bases made from enamel-finished steel. The 12mm plated-steel rod screws into the base and can therefore be removed for easier storage.

- Rubber feet for stability
- Small: base 200 x 125mm, height 600mm
- Large: base 225 x 150mm, height 750mm

Type	Order code	1+
200 x 125 x 600mm	**52-1305**	5.55
225 x 150 x 750mm	**52-1307**	6.75

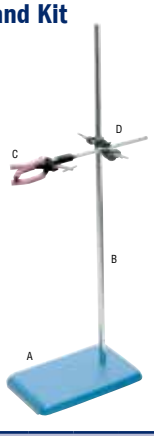
300784

RVFM

Laboratory Retort Stand Kit

This Laboratory Retort Stand Set is essential equipment for all science labs. The set comprises 1 each of Retort Stand Base, Rod, Clamp and Bosshead.

The individual parts are also available separately.



- Retort base 200 x 125mm
- Rod 10 x 600mm
- Retort clamp 260 x 85mm
- Retort clamp has rubber jaws and 3 prongs
- Bosshead fits rods up to 16mm
- Bases, rods and clamps are supplied **singly**
- Bossheads are supplied in **packs of 5**

Type	Order code	1+
Complete kit	**13-0140**	16.17
Base (single)	**52-0136**	7.95
Rod (single)	**52-0138**	3.49
Clamp (single)	**52-0140**	5.29
Bossheads (pack of 5)	**52-0142**	11.39

066646

RVFM

A-Shaped Retort Stand Bases

These A-shaped retort stand bases are manufactured from rugged cast iron, which provides extra stability. Features a baked, chemical resistant, paint finish which will prolong the life of the stand. The bridge between the two support arms has a threaded hole at the centre, which will take a 12.5mm diameter rod.

- Available with or without levelling screws
- Length of side 200mm

Type	Order code	1+
No levelling screws	**52-1302**	14.49

081805

RVFM

Nesting Retort Stand Rod and Base

NEW

These **retort stands** have a cast iron base and fit together for ease of storage. These A-shaped bases have a tapped hole to accept the support rod.

- Finished in blue or black
- Base length 200mm
- Support rod 700 x 10mm
- Weight 2.5kg

Rod size	Order code	1+
700 x 10mm	**52-2130**	12.85

549116

RVFM

Retort Rods for Stands

NEW

These **retort rods** have been manufactured using steel and are used in conjunction with a retort stand. The rods can be attached to a clamp for numerous experiments and fits inside most fume hoods.

- 500 (L) x 10mm
- Available in **Ni/Cr plate** or **stainless steel**

Technical specification

Part code	Material
52-2231	Stainless steel
52-2232	Ni/Cr steel

Type	Order code	1+
Stainless steel	**52-2231**	2.40
Ni/Cr steel	**52-2232**	1.40

549176

RVFM

Bosshead Clamp

A bosshead clamp with perpendicular, v-shaped jaws and thumbscrews set 180° apart for connecting clamps, etc. to retort stands.

- Aluminium metal with black protective coating
- Doublehead, diecast bossheads to hold rods of 5 to 20mm
- Plastic clamping screws for tightness
- **Edu-lab type Boss2**

Type	Order code	1+
Bosshead clamp	**52-0540**	5.99

072277

Phone
01206 751166

RVFM

Bosshead Clamps

NEW

These **bosshead clamps** have perpendicular jaws and thumbscrews set 180° apart and are ideal for connecting clamps, etc. to **retort stands**.

- Available in range of sizes

Type	Size (mm)	Order code	1+
Plastic-coated	14	**52-2125**	0.95
Nickel-plated	13	**52-2126**	1.18
Nickel-plated	21	**52-2127**	1.98
Diecast	13	**52-2128**	1.18
Diecast	21	**52-2129**	1.78

549115

RVFM

Retort Stand Clamp 4 Prong

This universal retort stand clamp is made from aluminium and has 4 jaws.

- The jaws allow objects from 2 - 90mm in diameter to be clamped securely
- The design of the jaws ensures a firm grip at all angles of opening
- The four interlocking jaws are cork lined
- Overall length is 24cm

Type	Order code	1+
Retort stand clamp	**52-0518**	3.94

072276

RVFM

Retort Clamp with Rubber Jaws and Bosshead

A robust retort clamp with rubber jaws and built-in bosshead.

- Suitable for use with all stands
- Bosshead accommodates rods up to 15mm diameter
- Clamping rod operates through swivels mounted neatly in the jaw
- Mounted on a 135mm rod of 8mm diameter
- Suitable for use with a stand
- Length 250mm
- Max. clamping diameter approx. 75mm

Type	Order code	1+
Combined retort clamp	**06-6452**	6.49

079050

RVFM

3-Prong Clamps

A range of 3-prong clamps with rods that can be attached to a retort stand by means of a boss-head clamp.

- Retort stands and boss-head clamps available separately

Type	Order code	1+
Zinc alloy	**06-2126**	6.45
Aluminium casting	**06-2127**	5.15
Die-cast aluminium	**06-2128**	5.15

534071

Rapid …where price meets quality

RVFM

Burette Clamps

These burette clamps attach to retort stands and have rounded steel jaws that open from 10 to 35mm diameter.

- Jaws can be rotated through 360° and locked in any position
- Fits support rods up to 15mm diameter
- Available with or without plastic coated jaws

Type	Order code	1+
Metal jaws	**06-2129**	4.38
Plastic coated jaws	**06-2130**	4.95

534072

RVFM

Burette Double Clamp

NEW

This **burette double clamp** is an ideal addition to the laboratory and has been designed to hold two burettes from micro to 100ml size. Equipped wtih self-closing jaws to clamp the burettes in a rigid, upright position without obscuring graduations. Diecast, high strength alloy.

- Ni/Cr plated metal
- Supports rod up to 14mm diameter

Type	Order code	1+
Burette Clamp	**52-2222**	5.99

549172

RVFM

Edu-Lab Retort Clamps

Robust 4-finger retort clamps with cork jaw inserts, available with or without a bosshead. The cork lining of these clamps provides a non-slip, soft grip, ideal for holding test tubes, flasks and other glassware.

- Cork jaw ensures firm grip at all angles
- Four-prong jaws
- Holds items from 2 to 90mm diameter
- Model with bosshead, **06-6450**, fits rods up to 15mm diameter and is 210mm long
- Model without bosshead, **06-0451**, has a 145 x 8mm diameter rod and an overall length 245mm

Type	Order code	1+
With bosshead	**06-6450**	7.08
Without bosshead	**06-6451**	5.24

079049

RVFM

Retort Stand Rings

Base support rings for retorts and other round bottomed flasks.

- Strong mild steel rings with 8mm diameter stems
- Bossheads attach to retort stand rods from 7.5 to 12.5mm in diameter
- Available in 50 and 75mm internal diameters
- Stem length 90mm (50mm dia. model), 95mm (75mm model)
- **Edu-Lab types CH0672A** (50mm) and **CH0672B** (75mm)

Type	Order code	1+
50mm retort ring	**52-9018**	3.79
70mm retort ring	**52-9020**	3.99

075372

RVFM

Support Rings

NEW

These **support rings** are an ideal addition to the chemistry laboratory offering an economical means of supporting **retorts** and other round-bottomed flasks. Available in a choice of 3 sizes.

- Includes bosshead clamp
- Made from nickel-chromium plated steel
- Supplied in packs of 3

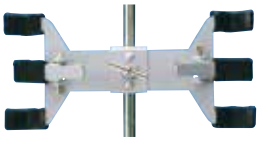
Diameter	Order code	1+
60mm	**52-2142**	1.65
80mm	**52-2143**	1.75
100mm	**52-2144**	1.85

549122

RVFM

Double Burette Clamp

A retort stand clamp that can hold up to two burettes.



- Two plastic coated spring jaws for burettes up to 25mm diameter
- Cast metal clamp
- Suitable for retort stands with support rods up to 13mm diameter

Type	Order code	1+
Double clamp	**06-6584**	16.49

078930

RVFM

Double Burette Clamp

This metal clamp attaches to a normal laboratory retort stand and securely holds 1 or 2 burettes.

- Plastic coated sprung jaws
- Holds burettes up tp 25mm diameter
- Suitable for use with retort stands with support rods up to 13mm diameter

Type	Order code	1+
Double Burette Clamp	**06-6585**	4.99

501650

RVFM

Suspension Clamp

This clamp is ideal for supporting pendulums and for suspending specimens over a hotplate. The clamp holds items at a distance of 115mm (4½in.) from the support rod. Aluminum hook swivels and locks at any angle.

- Holds items at a distance of 115mm (4½in.) from the support rod
- Aluminium hook swivels and locks at any angle

Type	Order code	1+
Suspension clamp	**06-2133**	2.95

534074

Special offers

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RVFM

Thermometer Clamp

A lightweight clamp for supporting thermometers and similar apparatus up to 13mm in diameter. The jaw can be adjusted through 360° and is fastened into position with a wing nut.

- The clamp fastens to retort stand rods up to 16mm in diameter
- Overall length 140 mm

Type	Order code	1+
Thermometer clamp	**06-2134**	3.75

534075

RVFM

Single Burette Stand

This burette stand is made from seasoned hardwood and has moulded plastic clamping screws.

- For holding single burette
- Attractive, highly polished wood
- Base dimensions: 200 x 100mm
- Rod dimensions: 460mm height and 16mm diameter

Type	Order code	1+
Single burette stand	**52-1312**	8.99

081808

RVFM

Clamp with Support Rod

This clamp and support rod assembly can be clamped to a table top to hold the rod vertically or horizontally.

- Cast iron with black enamel finish
- Rod approx. 510 x 10mm dia.
- Can clamp on to tables, etc., up to 50mm thick

Type	Order code	1+
Clamp & support rod	**06-2135**	7.50

533948

Racks

RVFM

Vertical Burette Rack

A polished hardwood rack for storing burettes vertically.

- Upper tier has recesses to locate burettes
- Can take up to 13 burettes
- Height: 455mm, width: 400mm, Depth (max.): 77mm

Type	Order code	1+
Burette rack	**06-6914**	12.99

079609

RVFM

Wooden Funnel Holder

NEW

This wooden **funnel holder** can keep two funnels securely held in place over jars, beakers or other receptacles.

- Double sided
- Closed holes

Type	Order code	1+
Double sided	**52-2151**	4.45

549125

RVFM

Z type Test Tube Rack

This Z-shapeded test tube rack is made from folded aluminium and has a protective blue finish. The open construction of the rack allows several racks to be stacked into a very small space for storage. The rack has 3 hole sizes to acommodate differing diameters of test tube.

- Holds up to 19 test tubes
- 3 hole sizes: 5x 27mm, 6x 19mm & 8x 13mm
- Aluminium construction with blue protective finish
- Overall dimensions: 200 x 115 x 75mm

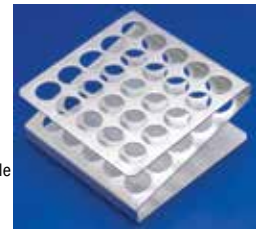
Type	Order code	1+
Z type Test tube rack	**52-0610**	4.69

070773

medline scientific limited

Z-type Test Tube Rack

The Medline Z-075 Aluminium Test Tube Rack holds tubes in a 5 x 5 grid which is labelled with alpha-numeric characters for easy recording and location of samples. It is suitable for standard test tubes and screw-topped tubes.



- Dimensions: 110 x 110 x 45mm
- Hole diameter: 17mm
- Convenient Z-shape enables space-efficient stacking
- Easy to clean aluminium
- Apha-numeric index grid
- Holds up to 25 standard test tubes
- **Medline type Z075**

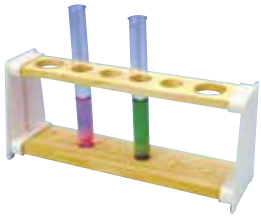
Type	Order code	1+
Test tube rack	**52-0611**	8.95

500337

RVFM

Test Tube Rack - Pack of 5

This 6 hole test tube rack is made from hardwood, with polypropylene ends.



- Supplied in **packs of 5**

Type	Order code	1+
Test tube rack	**52-0154**	28.24

066652

RVFM

Test Tube Racks

High quality test tube racks from Edu-Lab, available with a range of holes and hole sizes. The racks have polished wood runners with clip-on polypropylene ends and are available in 6 and 12 hole versions.

- Polished wood runners
- Clip-on polypropylene ends
- 6-hole version is available with either 6x 20mm holes, or 4x 20mm plus 2x 30mm holes
- 12 hole version has 12x 20mm holes
- 6-hole version with 6x 20mm holes and 12-hole version are supplied **singly**
- 6-hole version with 4x 20mm plus 2x 30mm holes is supplied in a **pack of 5**

Technical specification

Order code	20mm holes	30mm holes	Pack size	Length (mm)	Height (mm)
52-8044	6	-	1	230	110
52-0154	4	2	5	410	110
52-8042	12	-	1	230	110

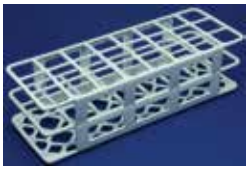
Type	Order code	1+
6x 20mm (single)	**52-8044**	4.09
4x 20mm + 2x 30mm (5)	**52-0154**	28.24
12x 20mm (single)	**52-8042**	5.69

075356

medline scientific limited

Universal Test Tube Rack

The Medline 19568 universal test tube rack is made from white autoclavable polypropylene and is specially designed to ensure that all the test tubes will be incubated at the same temperature. An alpha-numeric grid reference on the top tier of the rack allows easy sample recording and location. The Medline 19568 universal test tube rack is easily assembled and dismantled for cleaning and are stackable when unloaded.



- Holds 24 tubes in a 3 x 8 grid
- Test tube diameter 30mm
- Alpha numeric grid
- Autoclavable polypropylene
- Stackable when unloaded
- Dimensions 300 x 111 x 83mm
- **Medline type 19568**

Type	Order code	1+
Universal tube rack	**52-8041**	13.89

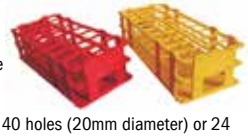
500338

RVFM

NEW

Plastic Test Tube Racks

These plastic **test tube racks** offer an economic solution to storage in the science laboratory. These racks are available in 2 sizes, with either 40 holes (20mm diameter) or 24 holes (25mm diameter).



- Available in a range of colours - white, yellow and red

Actual colour supplied allocated at random.

Type	Order code	1+
40 holes	**52-2134**	1.25
24 holes	**52-2135**	1.25

549118

To save time

Fax any of your previous bulk orders for our quote to:

01206 751188

RVFM

NEW

Wooden Test Tube Racks

These **wooden test tube racks** are an essential addition to any chemistry laboratory. These economical racks are available with either 6 or 12 holes.

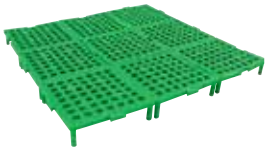
- Hole diameter 22mm
- Supplied **singly**

Type	Order code	1+
6 holes	**52-2136**	1.70
12 holes	**52-2137**	2.40

549119

RVFM

Sinksafe Glassware Protection Mats Pack of 20



In school laboratories there is a cost saving every time a breakage is prevented and important safety benefits from avoiding broken glass or mercury spillage from thermometers in the sink. **Sinksafe** is composed of 50mm square modular units which connect together to form a platform to cover the base of any sink. It provides a firm cushion to break the fall of glassware. The mesh design allows unhindered passage of liquids and the small contact area of the legs prevents capillarity retention of chemical solutions.

- Chemical-resistant polypropylene construction
- Suitable for **Key Stage 3+** (age 11 and above)

Type	Order code	1+
Protection mats Pk of 20	**52-9256**	11.89

082797

RVFM

Disposable Plastic Syringes

These syringes have graduated barrels and are available with either 10ml or 20ml capacities.

- Graduated in 1ml increments
- Supplied in **packs of 100**

Type	Order code	1+
10ml	**52-0145**	16.99
20ml	**52-0147**	19.95

300336

RVFM

Syringes

Plastic syringes ideal for creating simple pneumatic or hydraulic systems.

- 5ml capacity
- Rubber seal gives effective push-pull action
- Use with 3mm internal diameter tubing
- Also suitable for general purpose dispensing of glues, compounds, etc.
- Supplied in **packs of 10**

Type	Order code	1+
5ml syringes	**52-4100**	1.15

077474

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01206 751166

ELECTROLUBE
THE SOLUTIONS PEOPLE

Reusable Syringes

Re-usable syringes.

- Ideal for precise application of glues, greases, pastes and two-part compounds, where a precise amount of each is to be mixed
- Supplied in **packs of 10**

Type	Order code	1+	5+	10+
20ml	**87-0346**	11.21	11.02	10.71

035703

RVFM

R-usable Syringes

A range of re-usable syringes, ideal for precise application of glues, greases, pastes and two-part compounds, where a precise amount of each is to be mixed.

- The 12ml syringe has a fine, curved tip, ideal for reaching awkward places

Type	Order code	1+	10+	50+
1ml	**87-0338**	0.466	0.394	0.361
5ml	**87-0343**	0.53	0.461	0.416
12ml curved	**87-0345**	2.76	2.59	2.43

061886

Pipettes

RVFM

Dropping Pipettes

These dropping pipettes are available in small and large sizes and are useful for dispensing liquid from test tubes.

- Both pipettes have soft rubber teats
- Small pipette has overall length of 110mm
- Large pipette has a glass body of 125mm length
- Supplied in **packs of 10**

Type	Pack size	Order code	1+
Small pipette	10	**52-1264**	4.89
Large pipette	10	**52-1266**	5.47

081793

RVFM

Pipette

A small plastic pipette, ideal for dispensing small amounts of liquid.

- Soft bulb is squeezed to suck up and dispense liquid
- Capacity 7ml

Type	Order code	1+
Pipette	**06-6066**	0.06

080613

medline
SCIENTIFIC LIMITED

Graduated Pasteur-type Pipettes

Disposable, graduated Pasteur-type pipettes from Medline, made from transparent, inert, low-intensity polythene.

- Volumetric tolerance ± 10%
- Not sterile
- Supplied in **packs of 500**
- **Medline types 200003** (1ml) and **300006** (3ml)

Technical specification

Nominal capacity	Length	Stem diameter	Total capacity	Bulb draw	Graduations
1ml	154mm	5mm	5ml	3.1ml	0.25ml
3ml	154mm	7.8mm	7ml	3.2ml	0.5ml

Type	Order code	1+
1ml (500)	**06-7019**	6.89
3ml (500)	**06-7021**	7.29

500327

RVFM

Glass Dropper Pipettes

Glass dropper pipettes with rubber bulbs.

- Glass dropper pipettes
- Length of glass tube 125mm
- Approx. diameter of glass tube 7.5mm reducing to approx. 3mm
- Bulb is approx. 16.5mm wide and 73mm long
- Supplied in **packs of 20**

Type	Order code	1+
Glass - pack of 20	**52-0522**	4.75

072256

RVFM

NEW

Pipette Fillers

These **pipette fillers** are lightweight instruments designed for the simple pipetting of volumetric and graduated pipettes.

- Available in measurements of **2ml, 10ml** and **25ml**

Size	Order code	1+
2ml	**52-2215**	2.15
10ml	**52-2216**	2.15
25ml	**52-2217**	2.40

549167

RVFM

Edu-Lab Pipette Pump

A range of plastic pipette pumps, available with various capacities, that are ideal for quickly and easily taking up or dispensing precise amounts of liquids. Features a knurled thumbwheel for precise pipetting and a releaser for rapid emptying. A moulded plastic chuck contains a silicon rubber collet which can hold various standard sizes of pipette.

- Resistant to acids and alkalis
- Suitable for hazardous/corrosive chemicals
- Easily disassembled for cleaning and maintenance

Capacity	Order code	1+
2ml	**52-1268**	7.45
10ml	**52-1270**	7.45
25ml	**52-1272**	7.45

081794

Website

www.rapidonline.com

Page 520

Beakers

RVFM

Diji Pipette Syringe

Diji is a unique new instrument designed for handling laboratory liquids.

- Combines the features of a pipette and a syringe
- Simple to use
- Inexpensive
- Provides a new standard or precision
- Accurate
- Suitable for **Key Stages 3, 4 & A Level** (ages 11 to 18)
- Capacity **25ml**

Type	Order code	1+
25ml Pipette syringe	**06-6540**	16.69

079083

Pipette Fillers

RVFM

Suction Pipette Filler

A suction type filler for measuring and volumetric pipettes.

- Rubber squeeze bulb with valves
- 50cc capacity
- Withstands acids and other hazardous chemicals
- Features 3 flow control valves, that are opened by squeezing

Colour supplied will vary.

Type	Order code	1+
Pipette filler	**52-8058**	3.58

075361

RVFM

Rubber Bulbs for Pipettes

Rubber bulbs for filling pipettes.

- Ideal for filling pipettes, etc., especially with corrosive or harmful chemicals
- Pear-shaped bulbs available in 5, 15 and 50ml capacities
- Dropper teats available in small and large sizes

Type	Order code	1+
Bulb - 5ml	**06-7018**	0.38
Bulb - 15ml	**06-7020**	0.41
Bulb - 50ml	**06-7022**	1.38
Teat - large	**06-7026**	0.54

079636

Burettes

RVFM

Stopcock Burette with Rotaflow

A large borosilicate glass burette with a Rotaflow stopcock to accurately control the efflux of liquids.

- Liquid capacity 500ml
- Length 750mm
- Diameter of measurement tube 14mm
- Outlet diameter 7mm tapering to 2mm
- Graduated 0 to 50 with subdivisions
- Features a Rotaflow type stopcock
- Manufactured from borosilicate glass

Type	Order code	1+
Burette with Rotaflow	**52-1260**	6.45

081791

RVFM

Stopcock with PTFE

A stopcock that is for use with a burette, to accurately control the efflux of chemicals.

- Capacity 50ml
- PTFE key type stopcock
- Jet is blown from borosilicate glass
- Threaded sleeve at either end
- Glass jet at one end for attaching to burette

Type	Order code	1+
Stopcock PTFE	**52-1262**	9.39

081792

RVFM

Straight Bore Burettes with PTFE Stopcocks

Graduated straight bore burettes.

- PTFE stopcocks for smooth turning
- Supplied **singly**

Technical specification

Capacity	Tolerance	Graduation divisions	Class
10ml	0.02ml	0.05ml	A
25ml	0.05ml	0.1ml	B
50ml	0.05ml	0.1ml	A

Type	Order code	1+
10ml	**52-1028**	11.85
25ml	**52-1030**	12.40
50ml	**52-1032**	12.71

073144

Page 519

Cylinders

Phone
01206 751166

RVFM

Burettes

Burettes with acrylic bodies and leakproof stopcocks fitted with self-lubricating PTFE plugs.

- Individually calibrated for maximum accuracy
- Acrylic body is unaffected by dilute acids and bases except hydrofloric acid and ammonium hydroxide
- pH range 1 to 14
- Can be used up to 5% wt/wt of acids or 30% base
- Material: polymethyl methacrylate/TPX
- Available in **25, 50 and 100ml** capacities

Type	Order code	1+
25ml	**52-1452**	5.35
50ml	**52-1454**	5.79
100ml	**52-1456**	9.55

122489

Stopcocks

RVFM

Stopcocks

Value-for-money stopcocks with PTFE plugs.

- Fits 6 to 10mm tubing
- Corrosion free polypropylene and PTFE construction
- Available in 2-way and 3-way styles

Type	Order code	1+
2-way	**52-1488**	7.45
3-way	**52-1490**	7.55

122496

Spreaders

medline scientific limited

Inocculating Loops

Sterile inoculating loops manufactured from flexible polystyrene by Medline. These loops are used to collect a tiny quantity of a liquid to be tested, which can then be spread, for instance, over the Agar gel in a Petri dish.

- Smooth and flexible for uniform, smooth streaking without damaging the gel surface
- Rounded tip
- Colour-coded
- Sterilized by Ethylene Oxide
- Sterile & disposable to eliminate the risk of cross-contamination
- Free from lubricants - does not contaminate any media
- Supplied in convenient sterile peel pouch bags
- Batch and expiry date printed on the bag
- Available in **1µl and 10µl sizes**
- Supplied in **packs of 1000**

Type	Order code	1+
1µl	**52-0201**	21.25
10µl	**52-0203**	18.59

502674

L-Shaped Spreaders

L-shaped, or Digralsky, spreaders, from Medline, designed for surface spreading of test samples. They are made of white polystyrene which has been radiation sterilized. The base length allows the spreading of liquid samples over any type of Petri dish and avoids contact with the dish walls. The spreaders have curved extremities and rounded corners to help to avoid damaging the surface of the media while spreading. Supplied in packs of 25 units, marked with code, expiry date and lot.

- L-shaped, or Digralsky, spreaders
- Designed for surface spreading of test samples
- Made from white polystyrene
- Radiation sterilized
- Base length allows spreading of liquid samples over a Petri dish and helps avoid contact with the dish walls
- Curved extremities and rounded corners help avoid damage to the surface of the media
- Marked with code, expiry date and lot
- Total length: 149mm, base length: 40mm
- Supplied in **packs of 25**

Type	Order code	1+
L-Shape Spreader (25)	**52-0199**	1.39

502675

Filter Paper

Filter Paper

High quality filter paper available in 110 and 125mm diameters.

- Available in 110mm and 125mm diameters
- Supplied in **boxes of 100**

Type	Order code	1+
110mm	**52-0148**	2.48
125mm	**52-0150**	2.11

066650

Filter Paper

This high quality filter paper is widely used for qualitative analysis. Ideal laboratory resource for schools.

- Available in 110mm or 125mm diameters
- Supplied in **packs of 100**

Type	Order code	1+
Filter paper 110mm	**52-0408**	2.14
Filter paper 125mm	**52-0410**	2.19

072238

Qualitative Filter Papers

This high-quality **filter paper** is ideal for use particularly in schools and colleges for **qualitative analysis** in chemistry experiments.

- Available in a range of sizes
- Supplied in **packs of 100**

Diameter	Order code	1+
70mm	**52-2178**	1.10
90mm	**52-2179**	1.45
110mm	**52-2180**	1.99
125mm	**52-2181**	2.50
150mm	**52-2182**	3.20
180mm	**52-2183**	4.99

549138

Indicator Test Paper

Johnson Indicator Papers

Indicator papers available in a range of types and pack sizes.

- Supplied in convenient plastic dispensers
- Universal pack includes pH indicator scale
- **Pack of 200** contains 10 books of 20 strips 10mm wide
- **Pack of 100** contains 100 loose strips 10mm wide
- **5m pack** contains a single continuous strip 7mm wide

		Price each
Type	Order code	1+
Blue litmus 200	**52-8000**	2.48
Blue litmus 100	**52-8002**	1.74
Blue litmus 5m	**52-8004**	2.73
Red litmus 200	**52-8006**	2.48
Red litmus 5m	**52-8010**	2.63
Ph 1-11 univ. 200	**52-8012**	2.63
Ph 1-11 univ. 100	**52-8014**	1.74
Ph 1-11 univ. 5m	**52-8016**	2.95
Ph 1-14 univ. 200	**52-8018**	2.91
Ph 1-14 univ. 100	**52-8020**	1.89
Ph 1-14 univ. 5m	**52-8022**	3.15

075339

Universal Test Papers

Universal test paper pH 1-11, each book containing 20 leaves.

- Supplied in plastic container
- Supplied in **packs of 10 books**

Type	Order code	1+
Universal test papers	**52-0604**	3.29

070851

Reaction Testers

These reaction testers demonstrate ingenious card strips, enabling students to test their reaction performance without the need for more costly equipment.

- Ideal for use in Science and Design & Technology investigations
- Suitable for **Key Stages 1, 2, 3 & 4** (ages 5 to 16)

Type	Order code	1+
Reaction tester	**06-0689**	0.25

071898

Spotting Tiles

Spotting Tiles

Plastic 12 cavity autoclavable spotting tiles.

- Supplied in **packs of 10**

Type	Order code	1+
Spotting tiles	**52-0612**	10.69

070850

Glazed Spotting Plates

These **glazed spotting plates** feature hollows designed for the laboratory, which are able to withstand high thermal shocks without suffering any cracks or deformation.

- Hollow diam. 21mm
- Hollow depth: 6mm
- Available with **6 or 12 hollows**

Technical specification

Part code	Quantity
52-2227	6 hollows
52-2228	12 hollows

Type	Order code	1+
6 hollows	**52-2227**	0.37
12 hollows	**52-2228**	0.75

549174

Evaporating Dishes

Porcelain Evaporating Dishes

These evaporating dishes with shallow lip are an ideal laboratory resource for chemistry applications.

- Round bottom, glazed inside and outside except outside bottom
- Available in 80 and 100ml capacities
- Supplied **singly**

Type	Order code	1+
80ml	**52-0426**	1.39
100ml	**52-0428**	1.59

072244

Same day despatch
GUARANTEED!
On all orders for in-stock items placed between 8am and 7pm – Monday to Friday

Pestle & Mortars

RVFM

Porcelain Pestles and Mortars

In the laboratory, a pestle and mortar is used to grind, crush and mix substances into fine powders that can then dissolve or react quickly, or can be strained or filtered more easily. These porcelain pestles and mortars are robust and easy to clean and are glazed inside and outside except on the bottom of the mortar and the head of the pestle.

- Used to grind, crush and mix substances into fine powders
- Easy to clean
- Glazed inside and outside except on the bottom of the mortar and the head of the pestle
- **Supplied as a set** of 1 pestle and 1 mortar

Type	Order code	1+
80mm	**52-0413**	2.85
100mm	**52-0415**	3.79

501653

RVFM

Porcelain Pestle and Mortar

These porcelain pestle and mortars are essential equipment for the laboratory.

- High quality, compact in structure, impervious to gas infiltration, resistant to acids and alkalis and can withstand sudden temperature changes without cracks, explosion or deformation
- Under normal conditions, the glazed pieces can sustain a temperature of 1050°C while unglazed ones a temperature of 1350°C
- Glazed outside except bottom
- Available in 80mm or 100mm diameters
- Supplied **singly**

Type	Order code	1+
80mm pestle & mortar	**52-0414**	3.13
100mm pestle & mortar	**52-0416**	3.24

072241

RVFM

NEW

Porcelain Basins

These **porcelain basins** are ideal for evaporating tasks within the laboratory and come with a glazed finish, round bottom and spout.

- Available in the following capacities: **50ml, 75ml, 100ml** and **150ml**

Size	Order code	1+
10ml	**52-2223**	0.35
75ml	**52-2224**	0.48
100ml	**52-2225**	0.55
150ml	**52-2226**	0.92

549173

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New products

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Crucibles

RVFM

Squat-Form Crucibles

Squat-form porcelain crucibles with lids.

- Maximum temperature 800°C

Technical specification

Capacity	Diameter (mm)	Height (mm)
15ml	43	23
25ml	45	25

Capacity	Order code	1+
15ml	**52-8074**	1.05
25ml	**52-8076**	1.34

075349

Tongs & Holders

RVFM

Wooden Test Tube Holders

Wooden test tubes holders with spring.

- Supplied in **packs of 10**

Type	Order code	1+
Test tube holders	**52-0494**	5.69

072254

RVFM

Metal Test Test Holder

A Stoddard's pattern test tube holder ideal for students.

- Spring action clamps tubes in place
- Finger grips for safe holding
- Holds tubes up to 25mm diameter
- Nickel plated steel construction
- Overall length 130mm

Type	Order code	1+
Test tube holder	**52-8040**	0.53

075355

RVFM

Test Tube Holders

Test tube holders that consist of two metal strips, mounted in a wooden handle. Each holder features a sliding collar and a free end that is curved to accept tubes of diameter 22 to 32mm.

- Available with chrome plated mild steel or brass strips

Type	Order code	1+
Chrome	**52-1296**	0.79
Brass	**52-1298**	1.49

081803

RVFM

Cross Pattern Test Tube Holder

A test tube holder that consists of a pair of hard rolled brass spring strips, mounted in a wooden handle.

- Cross-scissor shape design
- Securely holds 12 to 30mm diameter tubes
- Overall length 220mm

Type	Order code	1+
Test tube holder, cross	**52-1300**	2.94

081804

RVFM

200mm Crucible Tongs

200mm crucible tongs available in economy and stainless steel models. These tongs are essential for the safe handling of hot crucibles.

- Length 200mm
- Economy or Stainless Steel models

Type	Order code	1+
Economy	**52-0515**	0.89
Stainless Steel	**52-0517**	1.74

300783

RVFM

Bowed Laboratory Tongs

High quality polished mild steel crucible tongs.

- Length 200mm
- Bowed jaws
- Supplied in **packs of 5**

Type	Order code	1+
Bowed tongs	**52-0158**	4.95

070950

RVFM

Economy Beaker Tongs with Plastic Jaws

Nickel-plated steel tongs with non-slip plastic-coated jaws, ideal for handling laboratory utensils like beakers, large crucibles, evaporating dishes and other round labware.

- Plastic covered jaws for good grip
- Jaws open to 115mm (4.5in.)
- Holds 50 to 2000ml beakers
- Length 240mm (9.5in.)

Type	Order code	1+
Tong (plastic jaws)	**52-0461**	1.99

501655

RVFM

Laboratory Tongs – Straight

High quality, polished mild steel crucible tongs.

- Length 200mm
- Straight jaws
- Supplied in **packs of 5**

Type	Order code	10+
Straight tongs	**52-0160**	11.49

082564

Spatulas, Spoons & Scoops

RVFM

Spatula with Spoon

A stainless steel tool that has a spoon at one end and a flat, rectangular spatula with a knife edge at the other end.

- Length: 150mm

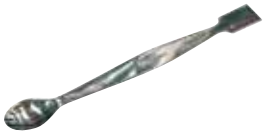
Type	Order code	1+
Spatula with spoon	**52-1274**	2.72

081795

RVFM

Spoon Style Spatulas

These Laboratory spatulas, made of high quality mild polished steel offer good value for money.



- Length 200mm
- Supplied in **packs of 5**

Type	Order code	1+
Spoon style	**52-0162**	10.64

070951

RVFM

Spatulas with Spoons

Stainless steel laboratory spatulas with a spoon bowl at one end and a rectangular flat at the other.

- Available in 120 and 150mm lengths

Type	Order code	1+
120mm	**52-1275**	0.69
150mm	**52-1277**	0.95

502653

RVFM

NEW

Stainless Steel Spoons

Stainless steel **spatulas** suitable for use in the laboratory or art studio, with a spoon at one end and a squared spatula at the other.

- Available in choice of 2 lengths

Length	Order code	1+
150mm	**52-2175**	0.18
200mm	**52-2176**	0.37

549136

RVFM

Spatulas

General purpose double-ended spatulas.

- Spoon end for lifting salts from containers, etc.
- Flat end with knife edge for breaking up crystals, etc.
- Corrosion free polypropylene construction
- Available in 150 and 200mm lengths

Type	Order code	1+
150mm	**52-1524**	0.33
200mm	**52-1526**	0.45

122505

RVFM

Nuffield Spatulas

These Laboratory spatulas, made of high quality mild polished steel offer good value for money.

- Length 140mm
- Supplied in **packs of 5**

Type	Order code	1+
Nuffield spatula	**52-0164**	1.84

082559

RVFM

Chattaway's Spatula

A stainless steel Chattaway pattern spatula.

- One end flat, one end bent
- Overall length 150mm
- Supplied in Singles

Type	Order code	1+
Chattaway's spatula	**52-9034**	2.69

075379

RVFM

Chattaway Stainless Steel Spatulas

Double-ended stainless steel spatulas, ideal for loading small amounts of powdered or granular chemicals into test tubes, flasks, etc. One end is flat with a square end, the other end is rounded with an angled tip.

- Stainless steel
- Available in 100, 130, 150 and 200mm lengths

Type	Order code	1+
100mm	**52-9033**	0.75
130mm	**52-9031**	0.89
150mm	**52-9035**	1.09
200mm	**52-9037**	1.39

502651

RVFM

Trowel Spatula

A stainless steel trowel pattern spatula ideal for larger quantities of powders.

- Double-ended
- Large end width 19mm
- Narrow end width 10mm
- Overall length 175mm

Type	Order code	1+
Trowel spatula	**52-9038**	2.05

075381

RVFM

NEW

Spoon/Spatulas

These laboratory implements have a **spatula** at one end and a **spoon** at the other.

- Available in three sizes

Length	Order code	1+
125mm	**52-2168**	0.70
150mm	**52-2169**	0.80
210mm	**52-2170**	0.99

549134

RVFM

NEW

Stainless Steel Spatulas

Stainless steel **spatulas** suitable for use in the laboratory or art studio, with one bent **rounded end** and one **square end**.

- Available in a range of sizes

Length	Order code	1+
100mm	**52-2171**	0.70
125mm	**52-2172**	0.70
170mm	**52-2173**	0.75
200mm	**52-2174**	0.75

549135

RVFM

Economy Laboratory Scoop

A double-ended metal scoop ideal for loading powdered chemicals into test tubes and flasks, etc.

- Width: 15mm
- Length: 165mm

Type	Order code	1+
Laboratory Scoop	**52-9039**	0.69

502650

Stirring Rods

RVFM

Policemen Stirring Rods

A multipurpose stirring rod that is designed with a circular cross section with two differently shaped flattened ends, enabling it to be used as a stirrer or as a spatula.

- Made from polypropylene
- Dimensions 245mm x 6mm dia.

Type	Order code	1+
Stirring rods	**52-1202**	0.76

081779

SIMAX CZECH REPUBLIC

Glass Stirring Rods

6mm diameter glass stirring rods.

- Simax Borosilicate glass
- Supplied in **packs of 10**

Type	Order code	1+
125mm	**52-1006**	5.68
150mm	**52-1008**	6.47
200mm	**52-1010**	6.75
300mm	**52-1012**	7.43

073141

Free Delivery*
on all orders over £30 (excl. VAT)
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* See Terms & Conditions for full details

RVFM

Glass Stirring Rod

Borosilicate glass stirring rods.

- Available in **150mm** or **300mm**
- Supplied **singly**

Size	Order code	1+
150mm	**52-9144**	0.65
300mm	**52-9146**	0.84

082587

Tweezers

RVFM

Plastic Tweezers

Economical, plastic tweezers, ideal for science and as an assembly aid for small components.

- Serrated tips
- Locating lugs hold tips straight when closed
- Made from recyclable ABS plastic
- Length approx. 110mm

Type	Order code	1+
Plastic tweezers	**06-6064**	0.13

080612

RVFM NEW

Tweezers 125mm

These stainless steel **tweezers** are ideal for use in the laboratory, particularly for **biology and chemistry**, but are suitable for all types of work where fine control is required.

- Length 125mm
- Available with either curved or straight head

Head type	Order code	1+
Curved	**52-2185**	0.38
Straight	**52-2186**	0.38

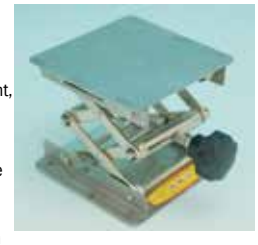
549141

Labortory Jacks

RVFM NEW

Stainless Steel Laboratory Jacks

These high quality **scissor jacks** are ideal for accurate positioning of laboratory equipment, especially where adjustability is required. These **laboratory jacks** are available in three sizes.



- Suitable for use in both the physics and chemistry laboratory
- Stainless steel platform base and top
- Large control knob
- Smooth operation

Size	Order code	1+
100 x 100mm	**52-2131**	9.99
150 x 150mm	**52-2132**	17.99
200 x 200mm	**52-2133**	21.95

549117

RVFM NEW

Laboratory Jacks

These **scissor jacks** are ideal for accurate positioning of laboratory equipment, with aluminium plates providing a rigid platform. These **laboratory jacks** are available in three sizes.

- Ideal for use in both physics and chemistry laboratory
- Scissor action movement with large control knob
- Tapped hole with locking nut on top plate accepts M10 threaded retort rod

Size	Order code	1+
100 x 100mm	**52-2145**	9.99
150 x 150mm	**52-2146**	17.99
200 x 200mm	**52-2147**	21.95

549123

RVFM

Laboratory Jack

A high quality scissor jack, ideal for accurate positioning of laboratory equipment, especially where adjustability is required.

- Ideal for heavy or bulky objects in both the physics and chemistry laboratory
- Stainless steel platform base and top
- Smooth operation
- **Edu-Lab type CH0642**

Technical specification

Platform size (mm)	Minimum height (mm)	Maximum height (mm)	Max. Loading weight (kg)	Order code
150 x 150	70	260	15	06-6620

Type	Order code	1+
150 x 150mm	**06-6620**	56.99

125027

Centrifuges

RVFM

Hand Powered Centrifuge with 4 Buckets

A rugged hand-driven centrifuge consisting of die-cast metal parts and a steel pinion and worm drive. The centrifuge has 4 buckets that take 15ml glass or plastic tubes.

- Integral screw clamp for fixing to a bench
- Can be easily dismantled for storage
- Plated metal head
- Scratch-resistant epoxy coated body
- Includes 4x buckets to take 15ml centrifuge glass or plastic tubes
- Buckets rotate 32 times for each turn of the handle

Type	Order code	1+
Hand centrifuge	**06-6900**	20.99

079602

Fast Delivery

All orders for in-stock items received by 7pm – Monday to Friday are despatched the same day

RVFM NEW

Hand Driven Centrifugal Precipitator

This **hand driven centrifugal precipitator** is a laboratory instrument which has been designed for separating the precipitates by means of the hand driven centrifugal mechanism in chemical experiments. Equipped with clamp for attaching to a bench edge.

- Ideal for the laboratory
- Hand-driven
- Includes clamp

Type	Order code	1+
Precipitator	**52-2235**	23.99

549237

RVFM NEW

Plastic Graduated Centrifuge Tube with Cap

This **plastic tube** is designed to be used in a **centrifuge**.

- Graduated scale
- Contents 50ml
- Blue plastic cap

Size	Order code	1+
50ml	**52-2153**	0.13

549127

Vacuum Pumps

RVFM

Electric Vacuum Pump

A rotary vane high vacuum pump, oil sealed and ideally suited for use in education.

- Relatively quiet in use
- Low energy consumption
- Can be operated for long periods of time
- Robust and engineered for schools use

Technical specification

Mains voltage	220V 50Hz
Free air displacement	1 Litre per second
Ultimate vacuum	0.01
Rotational speed	1300 rpm

Type	Order code	1+
Vacuum pump	**52-9878**	207.95

081646

Page 573

Linear Air Blower

RVFM

NEW

Electric Vacuum Pump

This rotary vacuum pump is ideal for all general laboratory applications.

- Quiet operation
- Easy to use
- Ideal for class use
- Supplied complete with fitted with UK 13A plug and instruction/ maintenance manual

Please note that the pump is supplied without oil. Recomended type HFV-1.

Technical specification

Input voltage	220V, 50Hz
Flow rate	42 litres per min. (1.5 CFM)
Ultimate vacuum	0.05 mBar (5Pa)
Stages	Single
Power	¼ HP
Intake fitting	¼in. flare
Oil capacity	280ml
Dimensions	308 x 124 x 228mm
Weight	6.5kg

Type	Order code	1+
Vacuum pump	**52-2210**	66.95

549163

RVFM

NEW

Hand Held Vacuum Pump with Pressure Gauge

This hand-operated **vacuum pump** can be used in the laboratory or classroom.

- Supplied with pressure gauge
- Scale reads both centimetres and inches of mercury
- Pumping rate 15ml per stroke
- Valve can release vacuum without disconnecting pump

Type	Order code	1+
With pressure gauge	**52-2098**	13.70

549096

Kipps Apparatus

RVFM

Kipp's Apparatus

A 3-chamber Kipp's Apparatus set made of unbreakable polyethylene.

- Top has thistle funnel and bulb structure though which dilute acid can be poured
- Acid reacts with a metal sulphide in the base
- H2S gas collects in the middle dome where it can be released via a PTFE stop cock
- Lower chamber has outlet with cap for cleaning
- High density polyethylene (HDPE) construction
- Available in **250, 500 and 1000ml** capacities

Type	Order code	1+
250ml	**52-1492**	15.45
500ml	**52-1494**	19.58
1000ml	**52-1496**	21.49

122497

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Electrolysis

RVFM

Hoffman's Voltameter Apparatus

Hoffman's Apparatus is used for demonstrating the decomposition of water, determination of chemical composition by electrolysis and has applications in the evaluation of the electrochemical equivalent of hydrogen. The glass unit has two connected limbs, each of approximately 50ml capacity (graduated 2 to 50ml), integral reservoir tube and funnel-shaped bulb, with a stopcock at the top of each limb.

- Supplied with electrodes, 2 carbon and 2 platinum
- Requires 12V power supply
- The apparatus should be set up vertically using a clamp and stand to hold it safely
- Chemicals required: Water, molar sodium, or potassium sulphate or sulphuric acid
- Supplied in a neat, protective packing case

Type	Order code	1+
Hoffman's apparatus	**06-6902**	69.99

079603

RVFM

Electrolysis Kit

This kit provides a means for breaking down water into hydrogen and oxygen to reaffirm the make up of water.

- The two stainless steel electrodes are heavily insulated and the two electrical connection leads are equipped with extra large clips
- Includes two rubber gaskets to provide positive seals for the filled test tubes while they are being inverted and placed into a beaker
- Glassware is not included
- Suitable for **Key Stage 3+** (age 11 and above)

Type	Order code	1+
Electrolysis kit	**52-0322**	23.29

071615

RVFM

Electrode Rod

Carbon rods, suitable for electrolysis.

- Dimensions 100(L) x 5(W)mm
- Supplied in **packs of 50**

Type	Order code	1+
Electrode rod	**06-6448**	32.49

079048

RVFM

Aluminium Sheet

Essential basic material for the Design & Technology and Science classroom or workshop.

- Available in two thicknesses
- Size 500 x 500mm

Type	Order code	1+
0.8mm	**06-0736**	7.99
1.2mm	**06-0738**	11.69

066920

RVFM

Brass Sheets

Economical brass sheets, ideal for cutting, shaping and bending.

- Superb rich brass finish
- 0.1mm thick sheets

Type	Order code	1+
A4	**06-0744**	5.39
A3	**06-0746**	9.13

066922

RVFM

Copper Sheets

These economical 0.1mm thick copper sheets are perfect for embossing, beinding and cutting.

- Basic Design & Technology and Science resource

Type	Order code	1+
A4	**06-0752**	4.20
A3	**06-0754**	7.80

066924

RVFM

Aluminium Foil

Food grade Aluminium Foil approximately 45cm wide, ideal for cookery as well as experiments with metal.

- Available on 75 and 90m rolls

Type	Order code	1+
45cm (18in,) x 75m	**06-0923**	8.10
455mm (18in.) x 75m	**06-0921**	8.19
455mm (18in,) x 90m	**06-0922**	13.95

066942

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Bottles

RVFM

Clear Dropping Bottles

Clear soda-lime glass dropping bottles with **a stopper size of 14.5/23.**

- Supplied **singly** or in **packs of 10**

Type	Order code	1+
50ml single	**52-0837**	2.47
50ml pack of 10	**52-0222**	24.71
100ml pack of 10	**52-0224**	27.81

066661

RVFM

Reagent Bottles

Plain clear glass reagent bottles, with narrow neck and dustproof plastic stopper.

- Supplied in **packs of 10**

Type	Order code	1+
50ml	**52-0226**	19.76
100ml	**52-0228**	21.81
250ml	**52-0230**	24.74

066662

SIMAX CZECH REPUBLIC

Clear Graduated Laboratory Bottles

Clear, graduated laboratory bottles with screw caps.

- Borosilicate glass
- Complete with blue screw cap and pouring ring
- Conform to **ISO 4796** and **ISO -GL 45**
- Supplied in **packs of 10**

Type	Order code	1+
100ml	**52-0986**	22.89
250ml	**52-0988**	24.90
500ml	**52-0990**	30.47
1000ml	**52-0992**	43.45

073137

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RVFM

Specimen Tubes

High quality polystyrene specimen tubes with screw on lid.

- Essential for your Science laboratory
- 30ml capacity
- Supplied in **packs of 10**

Type	Order code	5+
Pack 10	**52-0166**	12.49

Price each – MOQ 5+

066713

medline scientific limited

Polystyrene Containers

Medline polystyrene containers with polyethylene lids, ideal for the collection of biological samples or the storage of small amounts of chemicals.

- Ideal for samples
- Polystyrene containers
- Polyethylene screw-on lids
- Non-sterile
- Supplied **singly**

Technical specification

Capacity	Bottom diameter	Top diameter	Height	Medline type	Order code
30ml	25.1mm	30.8mm	92.5mm	309202	56-1517
60ml	39.3mm	44.2mm	66mm	309502	56-1519
200ml	58mm	62mm	95mm	309903	56-1521

Type	Order code	1+
30ml	**56-1517**	0.12
60ml	**56-1519**	0.15
200ml	**56-1521**	0.49

500329

medline scientific limited

Polypropylene Containers

Medline polypropylene containers with polyethylene lids, ideal for the collection of biological samples or the storage of small amounts of chemicals.

- Ideal for samples
- Polyethylene screw-on lids
- Non-sterile
- Supplied **singly**

Technical specification

Capacity	Bottom diameter	Top diameter	Height	Medline type	Order code
60ml	38.8mm	44.2mm	66.1mm	409502	56-1523
125ml	56.3mm	62.1mm	74.3mm	409702	56-1525
200ml	56.5mm	62.2mm	115.5mm	409902	56-1527

Type	Order code	1+
60ml	**56-1523**	0.15
125ml	**56-1525**	0.19
200ml	**56-1527**	0.29

500330

Round Narrow Mouth Bottles

A range of lightweight general-purpose polythene storage bottles.

- 5 litre bottle has carrying handle
- Supplied **singly**

Technical specification

Nom Capacity ml	Actual Capacity ml	Height mm	Body mm	Neck mm	Material	Order Code
125	138	112	48	15	LD Polythene	14-2000
250	280	139	60	15	LD Polythene	14-2002
1000	1080	197	94	21	HD Polythene	14-2006
5000	5300	295	176	36	HD Polythene	14-2010

Type	Order code	1+
Rd narrow mouth 125ml	**14-2000**	0.28
Rd narrow mouth 250ml	**14-2002**	0.38
Rd narrow mouth 1000ml	**14-2006**	0.55
Rd narrow mouth 5000ml	**14-2010**	12.57

034396

Round Wide Mouth Bottles

Wide mouthed bottles for general-purpose storage.

- Made from high density polythene

Technical specification

Nom Capacity ml	Actual Capacity ml	Height mm	Body mm	Neck mm	Material	Order Code
100	123	91	47	35	HD Polythene	14-2012
250	254	114	59	40	HD Polythene	14-2014
500	518	147	74	40	HD Polythene	14-2016
1000	1100	195	93	49	HD Polythene	14-2018
2500	2800	218	140	70	HD Polythene	14-2020

Type	Order code	1+
Rd wide mouth 100ml	**14-2012**	0.38
Rd wide mouth 250ml	**14-2014**	0.38
Rd wide mouth 500ml	**14-2016**	0.49
Rd wide mouth 1000ml	**14-2018**	0.65
Rd wide mouth 2500ml	**14-2020**	2.08

034398

Page 524

Funnels

Wide Mouth Bottles with Sealing Cap

Strong, light, general-purpose wide-mouth bottles with sealing caps.

- Made from HD polythene
- Supplied **singly**

Technical specification

Nom capacity ml	Actual capacity ml	Height mm	Body mm	Neck mm	Material	Order code
300	344	113	70	48	HD Polythene	14-2038
700	775	169	86	48	HD Polythene	14-2008
1250	1348	213	102	48	HD Polythene	14-2040

Type	Order code	1+
300ml	**14-2038**	0.55
700ml	**14-2008**	0.71
1250ml	**14-2040**	0.93

034399

Wash Bottles

A high quality wash bottle with washing tube.

- Simply squeeze to provide jet of liquid
- Available in **250ml** and **500ml capacities**
- Supplied **singly**

Type	Order code	1+
Rd wash bottle 250ml	**14-2022**	1.25
Rd wash bottle 500ml	**14-2024**	1.64

034400

RVFM Wash Bottles

Translucent, unbreakable wash bottles with built-in delivery tubes.

- Graduations on outer surface
- Low density polyethylene (LDPE) construction
- Available in **125, 250 and 500ml** capacities

Type	Order code	1+
125ml	**52-1462**	1.19
250ml	**52-1458**	1.35
500ml	**52-1460**	1.67

122490

Dispenser Bottle Cap

A dispenser bottle cap with integral cover.

- Suitable for the 125ml and 250ml capacity narrow mouth bottles
- Supplied **singly**

Type	Order code	1+
Dispenser Bottle Cap	**14-2036**	0.11

034404

RVFM Dropper Bottles

These bottles deliver a constant drop size of approximately 0.05ml.

- Three part bottles
- Ideal for small scale laboratory procedures
- Ideal for experimental procedures
- Made of polyethylene
- Capacity 10ml
- Supplied in **packs of 100**

Type	Order code	1+
Dropper bottles	**06-6446**	47.99

079051

RVFM Storage Vials

Storage vials for biological material, human and animal cells, etc.

- Leakproof built-in seal
- Corrosion free polypropylene construction
- Available in 1, 2 and 5ml capacities

Type	Order code	1+
1ml	**52-1518**	0.12
2ml	**52-1520**	0.16
2ml with O-ring	**52-1516**	0.15
5ml	**52-1522**	0.23

122504

Coplin Jars

RVFM Coplin Jar

A Coplin jar that can hold ten 1 x 3 inch slides back-to-back.

- Interior is grooved to hold slides upright
- Microwaveable
- Domed, shallow threaded screw cap protects slides
- Corrosion free polypropylene construction

Type	Order code	1+
Coplin jar	**52-1512**	1.15

122501

Petri Dishes & Racks

RVFM Autoclaveable Glass Petri Dishes

Clear glass petri dishes with lids. Can be autoclaved at a temperature of 120°C.

- Supplied in **packs of 18**

Type	Order code	1+
60 x 12mm	**52-0240**	15.15
100 x 15mm	**52-0242**	17.90

066667

medline 55mm 4-Vent Petri Dishes

These Aseptic 55mm Petri Dishes from Medline are made from polystyrene and have 4 vents. They are supplied in packs of 10 and are suitable for use with automatic filling machines.

- Diameter 55mm
- Height 14mm
- Supplied in **packs of 10**
- **Medline type 200201**

Type	Order code	1+
Petri Dishes (10)	**52-0179**	0.95

500335

medline 90mm Triple Vent Petri Dishes

These Aseptic Petri Dishes from Medline are made from polystyrene and have 3 vents. They are supplied in packs of 20 and are suitable for automatic filling machines.

- Diameter 90mm
- Height 14mm
- Side mark for orientation
- Writing area on bottom
- Supplied in **packs of 20**
- **Medline type 200200.5**

Type	Order code	1+
90mm triple (20)	**52-0173**	1.69

500404

RVFM 90mm Petri Dishes with Vented Lids

High quality 90mm diameter polystyrene Petri dishes with vented lids.

- 90mm diameter
- 15mm deep
- Sterile
- Available in **packs of 20**

Type	Order code	1+
Petri Dishes (20)	**52-0165**	3.39

066714

RVFM Petri Dishes

Clear, economical unbreakable petri dishes.

- Corrosion free polypropylene construction
- Autoclavable
- Available in 50, 125 and 150mm diameters

Type	Order code	1+
50mm	**52-1528**	0.21
125mm	**52-1530**	0.99
150mm	**52-1532**	1.35

122506

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RVFM

Petri Dish Racks

These holding racks for Petri dishes are manufactured from clear acrylic and have white polycarbonate posts.

- Useful during inoculation, incubation and storage
- Visibility from all sides ensures culture can be checked during incubation

Technical specification

Order code	Petri dish size	Number of dishes
52-1308	90mm	60
52-1310	60mm	56

Type	Order code	1+
Rack for 90mm dishes	**52-1308**	28.54
Rack for 60mm dishes	**52-1310**	24.90

081807

medline scientific limited

Triple Compartment Petri Dishes 90mm

Aseptic polystyrene Petri Dishes with 3 compartments and 3 vents from Medline. The dishes are supplied in packs of 20, packed in heat-sealed bags. They are suitable for use in automatic filling machines.

- 90mm diameter x 14mm high
- Aseptic polystyrene
- 3 compartments
- 3 vents
- Suitable for use in automatic filling machines
- Supplied in packs of 20 in heat-sealed bags
- **Medline type 200203**

Type	Order code	1+
90mm Petri dishes	**52-0169**	3.59

500334

Measuring Cylinders

RVFM

Plastic Measuring Cylinders

Durable polypropylene measuring cylinders with moulded graduations. Ideal for use by children and students and where the use of glass is not desirable.

- Hexagonal anti-roll bases

Type	Order code	1+
10ml (10)	**52-0170**	4.35
50ml (10)	**52-0175**	5.29

066654

RVFM

Plastic Measuring Cylinders

High quality, laboratory grade measuring cylinders made from polypropylene.

- Clear graduation markings on the side
- 25ml and 50ml sizes **supplied in packs of 12**
- 10ml, 100ml and 250ml sizes **supplied singly**

Type	Order code	1+
10ml (single)	**52-0177**	0.39
25ml (12)	**52-0172**	5.99
50ml (12)	**52-0174**	6.99
100ml (single)	**14-2030**	0.69
250ml (single)	**14-2032**	1.35

034402

LEARNING RESOURCES

Graduated Cylinders Set

A set of seven graduated measuring cylinders that are ideal for a wide range of measurement activities.

- Made from durable polypropylene
- Set includes 10, 25, 50, 100, 250, 500 and 1000ml measures
- Supplied as a **set of 7**

Type	Order code	1+
Cylinders set	**06-5892**	20.39

078661

SIMAX CZECH REPUBLIC

Measuring Cylinders

This range of glass measuring cylinders have a hexagonal base and white graduation marks.

- **ISO 4788** approved

Type	Order code	1+
10ml	**52-0192**	2.76
25ml	**52-0194**	3.35
50ml	**52-0196**	4.22
100ml	**52-0198**	4.31
250ml	**52-0200**	6.01

066657

RVFM

Measuring Cylinders

A range of tall form, graduated borosilicate glass cylinders with spouts.

- Blue graduations
- Available in **10ml, 25ml, 50ml, 100ml** or **250ml**
- Supplied **singly**

Capacity	Order code	1+
10ml	**52-9100**	2.29
50ml	**52-9104**	2.69
100ml	**52-9106**	3.74

082580

RVFM

Measuring Cylinders

Borosilicate Glass Measuring cylinders with round bases and pouring lips. Accuracy is in accordance with **ISO 4788.**

- Borosilicate Glass
- Round bases
- Pouring lips
- Accuracy in accordance with **ISO 4788**

Technical specification

Capacity (ml)	Sub divisions (ml)	Accuracy (ml)	Order code
10	0.2	±0.2	52-1441
25	0.5	±0.5	52-1443
50	1	±1	52-1445
100	1	±1	52-1447
250	2	±2	52-1449

Type	Order code	1+
10ml	**52-1441**	1.44
25ml	**52-1443**	1.69
50ml	**52-1445**	1.99
100ml	**52-1447**	2.75
250ml	**52-1449**	3.45

502647

ACADEMY Science Products

Measuring Cylinders

Measuring Cylinders from the Academy range of Borosilicate Glass laboratory volumetrics equipment.

- Borosilicate glass
- Round bases
- Brown graduations

Type	Order code	1+
10ml	**52-1431**	1.64
25ml	**52-1433**	1.69
50ml	**52-1435**	1.74
100ml	**52-1437**	2.41
250ml	**52-1439**	3.53

516961

Timed delivery service
See page 1238 for table of charges

Measuring Beakers

RVFM

Plastic Laboratory Measuring Beakers

Polypropylene measuring beakers with moulded graduations for ease of use.

- 50ml, 100ml, 250ml and 500ml supplied in **packs of 12**
- 1 litre beakers supplied in **packs of 6**
- A mixed **set of 10** containing **5x 100ml** & **5x 250ml** is also available

Type	Order code	1+
50ml pk 12	**52-0176**	3.15
100ml pk 12	**52-0178**	3.29
250ml pk 12	**52-0180**	5.25
500ml pk 12	**52-0182**	7.99
1 Litre pk 6	**52-0184**	6.89
5x 100 + 5x 250ml set	**52-0207**	11.49

066655

LEARNING RESOURCES

Graduated Beakers Set

A set of five graduated beakers that feature wide mouths for easy measuring.

- Beakers have spouts for easy pouring
- Made from unbreakable plastic
- Beakers nest for easy storage
- Set includes 50, 100, 250, 500 and 1000ml measures
- Supplied as a **set of 5**

Type	Order code	1+
Beakers set	**06-5890**	13.11

078660

RVFM

Plastic Measuring Jugs

Polypropylene measuring jugs with moulded graduations.

- 250 and 500ml jugs are graduated every 25ml and are supplied in **packs of 10**
- 1 litre jugs are graduated every 50ml and are supplied in **packs of 5**

Type	Order code	1+
250ml pack of 10	**52-0186**	18.76
500ml pack of 10	**52-0188**	20.87
1 litre pack of 5	**52-0190**	13.59

066656

LEARNING RESOURCES

Liquid Measurement Cups Set

A set of three measurement cups that allow students to practice liquid measurement. Each cup is clearly marked to allow partial measurements.

- Made from durable plastic
- Each cup has a handle and pouring spout
- Metric and imperial measurements
- Set includes 250, 500 and 1000ml capacities
- Includes teachers guide
- Supplied as a **set of 3**

Type	Order code	1+
Measurement cups	**06-5886**	6.55

078658

LEARNING RESOURCES

Litre Set

Help pupils understand the concept of volume, with this set of six clear measuring containers of differing heights and shapes. The three larger shapes hold one litre and the other two shapes have half a litre capacity. All vessels are clearly marked, so smaller amounts can be measured.

- All vessels are 110mm in height
- Suitable for all ages
- Supplied as **set of 6**

Type	Order code	1+
Litre set	**06-5884**	12.23

078657

RVFM

Glass Beakers

A range of low form borosilicate glass beakers with spout.

- Available in **50ml, 100ml, 250ml, 400ml, 600ml** or **1 litre**
- Supplied **singly**

Capacity	Order code	1+
50ml	**52-9110**	0.95
100ml	**52-9112**	0.99
250ml	**52-9114**	1.05
400ml	**52-9116**	1.49
600ml	**52-9118**	1.99
1 litre	**52-9120**	3.49

082581

Same day despatch GUARANTEED!

On all orders for in-stock items placed between 8am and 7pm Monday to Friday

ACADEMY

Low Form Beakers

Low Form Borosilicate Glass Beakers from the Academy laboratory glassware range.

- Borosilicate Glass
- **Supplied in packs** - see below for pack sizes

Capacity	Pack Size	Order code	1+
50ml	12	**52-0949**	7.36
100ml	12	**52-0951**	7.42
250ml	12	**52-0953**	9.45
400ml	12	**52-0961**	11.56
600ml	6	**52-0955**	7.33
1000ml	6	**52-0959**	16.42

516962

SIMAX CZECH REPUBLIC

Beakers

A range of low form glass beakers with white graduations.

- High quality borosilicate glass
- 50ml: graduations at 10 and 25ml
- 100ml: graduations at 25, 50 and 75ml
- 250ml: graduations at 50, 100, 150 and 200ml
- 400ml: graduations at 100, 200 and 300ml
- 600ml: graduations at 100, 200, 300, 400 and 500ml
- 1000ml: graduations at 200, 400, 600 and 800ml
- **ISO 3819** approved
- Supplied in **packs of 10**

Type	Order code	1+
50ml	**52-0202**	9.68
100ml	**52-0204**	9.68
250ml	**52-0206**	10.33
400ml	**52-0208**	12.94
600ml	**52-0210**	16.83
1 litre	**52-0212**	32.42

066658

SIMAX CZECH REPUBLIC

Tall Form Beakers

Tall form beakers with graduations and pouring spouts.

- Borosilicate glass
- Conform to **ISO 3819**
- Supplied in **packs of 10**

Type	Order code	1+
600ml	**52-0970**	20.73
1,000ml	**52-0972**	30.47

073134

KIMBLE CHASE

Low Form Beakers with Spout

This range of beakers are made from borosilicate glass and have sllightly flared, beaded tops, with spouts designed to have excellent pouring characteristics.

- A matte finish marking area is on all beakers for use with an ordinary pencil
- Easy-to-read white graduated scale
- Available in 100, 250, 400 and 600ml
- Supplied **singly**

Type	Order code	1+
100ml	**52-1882**	1.50
250ml	**52-1886**	1.62
400ml	**52-1888**	1.72
600ml	**52-1890**	1.89

123515

KIMBLE CHASE

Heavy Duty, Low-Form Glass Laboratory Beakers

These heavy duty beakers are made from borosilicate glass and have extra thickness built into the beaded rim. Their heavy construction prolongs life expectancy with harder than normal usage.

- A matte finish marking area is on all beakers for use with an ordinary pencil
- Easy-to-read white graduated scale
- Available in 250 and 600ml capacities
- Supplied **singly**

Type	Order code	1+
250ml	**52-1896**	3.90
600ml	**52-1898**	6.06

123520

KIMBLE CHASE

Tall Form Beakers with Spout

Manufactured from borosilicate glass these tall form beakers are designed with a slightly flared top, reinforced bead and pouring spout.

- A matte finish marking area is on all beakers for use with an ordinary pencil
- Easy-to-read white graduated scale
- Available in 100, 250 and 600ml
- Supplied **singly**

Type	Order code	1+
100ml	**52-1932**	1.40
250ml	**52-1934**	3.12

123529

Flasks

RVFM

Economy Conical Flasks

Economical Conical or Erlenmeyer Flasks made from borosilicate glass.

- Borosilicate glass
- Graduated

Type	Order code	1+
100ml	**52-0975**	0.84
250ml	**52-0977**	1.55
500ml	**52-0979**	2.39

502648

ACADEMY

Conical Flasks

Narrow Neck Conical, or Erlenmeyer Flasks in Borosilicate Glass from the Academy laboratory glassware range.

- Borosilicate Glass
- Narrow necks
- **Supplied in packs** - see below for pack sizes

Capacity	Pack Size	Order code	1+
50ml	24	**52-0967**	23.18
100ml	24	**52-0969**	21.10
250ml	6	**52-0971**	6.92
500ml	6	**52-0973**	9.45

516963

SIMAX CZECH REPUBLIC

Conical Flasks

Narrow neck glass conical flasks with white graduations.

- **ISO 1773** approved
- Supplied in **packs of 10**

Type	Order code	1+
100ml	**52-0214**	11.85
250ml	**52-0216**	12.94

066659

KIMBLE CHASE

Erlenmeyer flasks – Narrow Neck

This range of Kimble Chase Erlenmeyer Flasks have a low coefficient of expansion to resist thermal shock. They are made from borosilicate glass and have sturdy walls to minimize mechanical breakage.

- Available in 50, 100, 250 and 500ml
- Supplied **singly**

Type	Order code	1+
100ml	**52-1906**	1.89
250ml	**52-1908**	2.06
500ml	**52-1910**	2.65

123525

RVFM

Wide Mouth Conical Flasks

Wide Mouthed Conical Flasks, also known as Erlenmeyer Flasks, made from Borosilicate Glass.

- Wide Mouthed Conical Flasks
- Also known as Erlenmeyer Flasks
- Made from Borosilicate Glass

Technical specification

Capacity (ml)	Neck outside diameter (mm)	Height (mm)	Graduations (ml)	Order code
100	29	102	25, 50 & 75	52-9153
250	37	138	50, 100, 150 & 200	52-9155
500	52	180	200, 300 & 400	52-9157

Type	Order code	1+
100ml	**52-9153**	7.95
500ml	**52-9157**	15.99

502646

KIMBLE CHASE

Erlenmeyer Flasks with Wide Neck

This range of Kimble flasks are made from borosilicate glass and have sturdy walls to minimize mechanical breakage.

- Available in 100, 250 and 500ml
- Supplied **singly**

Type	Order code	1+
100ml	**52-1912**	2.37
250ml	**52-1914**	2.76
500ml	**52-1916**	4.21

123526

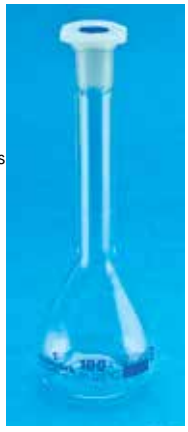
Page 1154

Safety Spectacles Classpack

RVFM

Class B Volumetric Flasks

Volumetric flasks made from Borosilicate glass with polythene stoppers. The flasks have a single mark at their stated capacity, with an accuracy in compliance with class 'B' of **ISO 1042.**



- Made from Borosilicate glass
- Polythene stoppers
- Single mark at stated capacity
- Accuracy in compliance with class 'B' of **ISO 1042**

Technical specification

Capacity (ml)	Accuracy (ml)	Stopper size	Order code
50	±0.12	12/21	52-9141
100	±0.2	14/23	52-9143
200	±0.3	14/23	52-9145
250	±0.3	14/23	52-9147
500	±0.5	19/26	52-9149
1000	±0.8	24/29	52-9151

Type	Order code	1+
50ml	**52-9141**	4.15
100ml	**52-9143**	3.67
200ml	**52-9145**	4.65
250ml	**52-9147**	8.06
500ml	**52-9149**	10.08
1000ml	**52-9151**	11.05

502645

SIMAX CZECH REPUBLIC

Volumetric Flasks with Plastic Stoppers

Volumetric flasks with plastic stoppers.

- Class B
- Simax Borosilicate glass
- Conform to **ISO 1042**
- Supplied in **packs of 10**

Type	Order code	1+
100ml	**52-0998**	38.95
250ml	**52-0999**	49.78

073138

RVFM

Flask Stand

A stand for round-bottom flasks.

- Prevents tipping and rolling
- Stepped recess provides excellent support
- Suitable for flasks up to 10 litres
- Corrosion free polypropylene construction

Type	Order code	1+
Flask stand	**52-1468**	4.75

122493

Fast Delivery

All orders for in-stock items received by 7pm – Monday to Friday are despatched the same day

6 days per week phone orders

Monday to Friday 8am to 7pm; Saturday 9am to 5pm

RVFM

NEW

Round Flask Stand

This circular polypropylene **stand** is ideal for use with round-bottom **flasks** in the chemistry laboratory.

- Diameter 90mm
- Prevents tipping and rolling
- Stepped recess provides excellent support
- Corrosion free polypropylene construction

Diameter	Order code	1+
90mm	**52-2152**	1.55

549126

Test Tubes

RVFM

Test Tubes

A range of borosilicate glass test tubes with rim.

- Available in **16 x 125mm** or **24 x 150mm**
- 16 x 125mm supplied in **packs of 100**
- 24 x 150mm supplied in **packs of 50**

Size	Pack quantity	Order code	1+
16 x 125mm	100	**52-9126**	37.49
24 x 150mm	50	**52-9128**	23.99

082583

KIMBLE CHASE

Test Tubes with Rims

These Kimble Chase test tubes are manufactured from borosilicate glass tubing and can be used for a wide range of applications. They are designed for maximum heat transfer and chemical resistance.

- Wall thickness between 0.8 to 1.0mm
- 10 x 75mm, 16 x 125mm and 16 x 150mm tubes are supplied in **packs of 100**
- 24 x 150mm tubes are supplied in **packs of 50**

Type	Order code	1+
10 x 75mm pk100	**52-1895**	16.88
16 x 125mm pk 100	**52-1900**	29.82
16 x 150mm pk 100	**52-1897**	29.09
24 x 150mm pk 50	**52-1902**	27.65

123522

RVFM

Test Tubes with Side Arms

These test tubes are made from Borosilicate glass and feature a side arm.

- Available in various sizes

Length/dia.	Order code	1+
125 x 17mm	**52-1282**	0.79
150 x 19mm	**52-1284**	0.99
150 x 24mm	**52-1286**	1.35

081798

RVFM

Test Tube with Bent Side Arm

These test tubes are made from Borosilicate glass and feature a side arm that is bent downwards at an angle of 45°.

- Dimensions 150 x 24mm dia.

Type	Order code	1+
Test tube bent arm	**52-1288**	1.35

081799

RVFM

U-form Absorption Tubes

U-form absorption tubes in a range of sizes.

- Manufactured from borosilicate glass
- Strong walls for robustness
- Side arms approx. 6mm diameter
- 100 x 12mm tube **supplied singly**
- 125 x 15mm and 150 x 20mm tubes **supplied in pairs**

Type	Order code	5+
125 x 15mm - Pack of 2	**52-1334**	3.39
150 x 20mm - Pack of 2	**52-1332**	4.99

081815

medline scientific limited

Ultra-clear Polypropylene Tubes

These ultra-clear polypropylene tubes from Medline are ideal for use in rough environments where the use of glass tubes is not crucial. The tubes have greater crush resistance and are shatterproof.

- Autoclavable up to 121°C
- Matching natural coloured polyethylene caps available separately
- Supplied in **packs of 100**

Technical specification

Medline type	Internal diameter (mm)	External diameter (mm)	Total length (mm)	Maximum volume (ml)	Order code
400500	9.9	11.4	53.9	3.4	52-1899
400800	10.3	11.7	73.9	5.3	52-1901
400700	10.9	12.7	73.7	6.4	52-1903
400705	13.7	15.8	98.6	12.7	52-1905

Type	Order code	1+
11 x 55mm (100)	**52-1899**	2.76
12 x 75mm (100)	**52-1901**	2.97
13 x 75mm (100)	**52-1903**	3.32
16 x 100mm (100)	**52-1905**	3.70
Caps, 52-1899 (100)	**52-1907**	3.70
Caps, 52-1901 (100)	**52-1909**	3.79
Caps, 52-1903 (100)	**52-1911**	2.84
Caps, 52-1905 (100)	**52-1913**	2.06

500336

Tel: 01206 751166 Fax: 01206 751188

LEARNING RESOURCES

Jumbo Test Tubes

Even the youngest pupils can have fun with science with these Jumbo Test Tubes from Learning Resources. Chunky and durable, these plastic tubes can be used safely at temperatures from as low as -12°C and as high as +93°C.

- Set of 6 tubes
- Tubes feature calibration marks (25, 50, 75 and 100ml)
- 6 tube caps in different colours
- Sturdy rack included
- Activity guide included
- Tubes measure 15cm high, 3cm diameter
- Suitable for ages 3+
- Manufacturer's part **LER 2788**

Type	Order code	1+
Jumbo test tubes	**06-8948**	10.46

517659

Test Tube Brushes

RVFM

Test Tube Brushes

Brushes for cleaning test tubes and other tubular equipment.

- High quality bristles mounted in heavy gauge twisted galvanised wire
- Wire handles can be bent to clean awkward shapes
- Available in a range of sizes
- Supplied **singly**

Technical specification

Size	Brush area size	Overall length
Small	50 x 17mm dia.	150mm
Medium	75 x 25mm dia.	200mm
Large	75 x 35mm dia.	240mm

Type	Order code	1+
Small	**52-8048**	0.22
Medium	**52-8050**	0.32
Large	**52-8052**	0.49

075358

RVFM

NEW

Test Tube Brushes

Brushes for cleaning test tubes and other laboratory equipment, available in a range of sizes.

- Suitable for small, medium and large test tubes

Type	Order code	1+
19 x 8.5 x 2cm	**52-2161**	0.13
25 x 12 x 3cm	**52-2162**	0.15
28 x 12 x 3cm	**52-2163**	0.17

549131

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* See Terms & Conditions for full details

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01206 751188

RVFM

Cleaning Brushes for Laboratory Glassware and Plasticware

Cleaning brushes for beakers, burettes, test tubes, measuring cylinders and many other items of other laboratory glassware and plasticware. The hard nylon bristles are mounted in twisted galvanised iron wire.

- Suitable for beakers, burettes, test tubes, measuring cylinders and many other items of other laboratory glassware and plasticware
- Hard nylon bristles, mounted in twisted galvanised iron wire

Type	Order code	1+
Beaker Brush	**52-8053**	0.65
Burette Brush	**52-8055**	0.89
Test Tube Brush	**52-8057**	0.59

501639

RVFM

Flask and Bottle Brush

Brushes for cleaning flasks, bottles and other laboratory equipment.

- High quality bristles mounted in heavy gauge twisted galvanised wire
- Wire handles can be bent to clean awkward shapes
- Brush area 75 x 40mm diameter
- Overall length 300mm
- Supplied **singly**

Type	Order code	1+
Flask/bottle brush	**52-8054**	2.69

082557

RVFM

NEW

Beaker Brushes

Brushes for cleaning beakers and other laboratory equipment, available in a range of sizes.

- Suitable for small, medium and large beakers

Type	Order code	1+
15 x 6.5 x 4cm	**52-2164**	0.23
16 x 7.5 x 5.5cm	**52-2165**	0.31
20 x 10 x 6.5mm	**52-2166**	0.60

549132

RVFM

Burette Brush

A long, thin brush for cleaning burettes, condensers, tubes and other narrow laboratory equipment.

- Brush area 250 x 12mm dia.
- Overall length 750mm

Type	Order code	1+
Burette brush	**52-8056**	1.34

075360

Stoppers & Bungs

RVFM

Rubber Stoppers with Hole

High quality soft rubber bungs with centre hole.

- Suitable to seal a container, such as a bottle or tube
- Ideal for the school laboratory
- Available in two sizes 24.5 reducing to 21 x 28(L)mm and 16 reducing to 13 x 24(L)mm
- 4mm centre hole
- Colour is light terracotta and they have a slight rubber odour
- Not recommended for use with food or drink
- Supplied in **packs of 10**

Type	Order code	1+
16 to 13 x 24(L)mm	**52-1042**	1.35
24.5 to 21 x 28(L)mm	**52-1046**	2.59

073906

RVFM

NEW

Rubber Stoppers

A selection of **rubber stoppers**, ideal for **laboratory use** with test tubes etc.

- Available in a range of sizes

Top/bottom diameter	Length	Order code	1+
17/13mm	24mm	**52-2156**	4.95
19/14mm	26mm	**52-2157**	4.95
20/15mm	26mm	**52-2158**	4.95
23/17mm	26mm	**52-2159**	4.95
26/19mm	28mm	**52-2160**	4.95

549130

RVFM

Solid Rubber Bungs

Solid high quality soft rubber bungs.

- Suitable to seal a container, such as a bottle or tube
- Ideal for the school laboratory
- Available in two sizes: 16 reducing to 13 x 24(L)mm and 24.5 reducing to 21 x 28(L)mm
- Colour is light terracotta and they have a slight rubber odour
- Not recommended for use with food or drink
- Supplied in **packs of 10**

Type	Order code	1+
16 to 13 x 14(L)mm	**52-1040**	1.36
24.5 to 21 x 28(L)mm	**52-1044**	2.72

073907

RVFM

Solid Rubber Bungs

Solid rubber bungs for laboratory use.

- Resistant to acids, alkalis and ammonia
- Supplied in **assorted packs of 50**

Technical specification

Quantity	Top dia. (mm)	Bottom dia. (mm)	Length (mm)
7	13	9	15
7	14	11	18
7	16	13	20
7	19	14	21
7	21	15	22
3	22	17	23
3	26	20	27
3	28	21	31
3	30	26	33
3	33	30	33

Type	Order code	1+
Solid bungs	**06-7028**	7.69

079637

MAJOR BRUSHES

Assorted Cork Tops

Cork stoppers and bungs in a variety of sizes.

- General purpose natural modelling material
- Ideal for adding buoyancy to models
- Supplied in **packs of 100g**

Type	Order code	1+
Cork tops 100g	**06-1310**	2.02

073058

Cork Borers

RVFM

Cork Borer Sets

Cutters for boring holes in cork or rubber stoppers.

- Complete with push rod for clearing waste from borers
- Cutters are individually numbered for identification
- Available in sets of 6 or 12
- Set of 6 is made from nickel-plated brass and includes one each of sizes 1 to 6
- Set of 12 is made from nickel-plated steel and includes one each of sizes 1 to 12

Technical specification

Cutter No.	Outside diameter (mm)	Cutter No.	Outside diameter (mm)
1	5	7	14
2	6.5	8	15.5
3	8	9	17
4	9.5	10	18.5
5	11	11	20
6	12.5	12	21.5

Type	Order code	1+
Set of 6	**06-6604**	26.79
Set of 12	**06-6606**	53.79

078937

RVFM

Cork Borers – Sets of 6 and 12

These sets of cutters are for boring holes into cork or rubber stoppers and bungs to allow the insertion of glass or plastic tubes, etc. A single cutter of the desired diameter is simply twisted round using the handles while applying pressure on to the stopper. A push rod is also included for removing the waste material from within the cutter.

- Sets of cutters for boring holes into cork or rubber stoppers
- Allows the insertion of glass or plastic tubes, etc.
- Simply twist round using the handles while applying pressure
- A push rod is included for removing the waste material
- Available in **sets of 6 or 12**

Type	Order code	1+
Set of 6	**06-6601**	24.95
Set of 12	**06-6605**	49.95

501651

RVFM

NEW

Cork Drill Set

These **drills** are made from chrome-plated steel pipe and can be used for boring holes in **cork** or through rubber stoppers for the insertion of glass or plastic tubes. Simply twist round using the handle while applying pressure to the stopper and the hole will be created.

- Supplied in set of 6

Set includes drill diameters 12mm, 11mm, 10mm, 8mm, 6mm and 4mm, plus rod for cleaning.

Type	Order code	1+
6-piece set	**52-2177**	4.85

549137

Funnels & Holders

RVFM

Funnel Set

Set of 3 plastic funnels, one each of 50mm, 75mm and 100mm diameter.

- Supplied as a **set of 3**

Type	Order code	1+
Funnel set	**52-0654**	2.79

070774

RVFM

Plastic Funnels

High quality plastic funnels from Edu-Lab available in 55mm, 65mm, 75mm and 95mm diameters.

- 55mm and 65mm diameter funnels are **supplied in packs of 10**
- 75mm and 95mm diameter funnels are **supplied singly**

Technical specification

Order code	52-0914	52-0916	52-0918	52-0920
Edu-Lab type	EDU212	EDU742	EDU175	EDU743
Top Dia. (mm)	55	65	75	95
Overall height (mm)	97	112	134	185
Length of spout (mm)	50	65	70	85
Diameter at top of spout (mm)	3	5	5	5
Diameter at bottom of spout (mm)	3	5	5	5

Type	Order code	1+
55mm Pack 10	**52-0914**	2.61
65mm Pack 10	**52-0916**	5.54
75mm Single	**52-0918**	0.61
95mm Single	**52-0920**	0.83

072496

Same day despatch
GUARANTEED!
On all orders for in-stock items placed between 8am and 7pm Monday to Friday

RVFM

Economy Plastic Funnels

A range of economical funnels suitable for a wide range of applications in the laboratory. The funnels are made form unbreakable plastic, making them ideal for younger scientists.

- Economical
- Unbreakable plastic
- Wide range of uses

Type	Order code	1+
50mm	**52-0925**	0.25
62mm	**52-0927**	0.29
75mm	**52-0929**	0.29
100mm	**52-0933**	0.43

502649

RVFM

100mm Funnels

General-purpose polythene funnels.

- 100mm Diameter
- Supplied in **packs of 5**

Type	Order code	1+
100mm funnels (5)	**06-6276**	6.39

079808

RVFM

Long Stem Funnels

Glass laboratory funnels with long stems. The longer, non-tapering stems of these funnels are useful when using funnels with tubing and when mounting them in bungs for use with flasks, bottles and retorts, etc.

- Available in a range of diameters

Technical specification

Diameter (mm)	Stem Diameter (mm)	Order code
50	7	52-0909
75	8	52-0911
100	9	52-0913
125	16	52-0915
150	16	52-0917

Type	Order code	1+
50mm single	**52-0909**	1.10
75mm single	**52-0911**	1.79
100mm single	**52-0913**	2.79
125mm single	**52-0915**	2.65
150mm single	**52-0917**	4.95

500177

RVFM

Porcelain Buchner Funnels

Buchner Funnels are used for straining and filtering liquids or for separating solids and liquids. This range is made from porcelain for minimum contamination and ease of cleaning. They can be used in conjunction with filter paper for superior separation.

- Straight sides
- Perforated plate
- Used for straining and filtering liquids or separating solids and liquids
- Made from porcelain for minimum contamination and easy cleaning
- Can be used in conjunction with filter paper for superior separation
- Available in a range of diameters

Type	Order code	1+
50mm	**52-1937**	2.14
60mm	**52-1939**	2.75
75mm	**52-1941**	4.75
125mm	**52-1945**	6.75

501654

RVFM

Porcelain Buchner Funnels

Porcelain funnels with straight sides and perforated plates.

- Mainly used for separating and filtering
- Can be used with filter paper

Technical specification

Size	Top dia. (mm)	Height (mm)	Filter paper size (mm)	Approx. capacity (ml)	Order code	Edu-Lab type
60mm	60	108	50	60	52-1940	CH0462C
125mm	125	200	110	575	52-1946	CH0462F

Type	Order code	1+
60mm	**52-1940**	5.30
125mm	**52-1946**	5.95

123537

RVFM

Polypropylene Buchner Funnels

These 2-piece plastic funnels are lightweight, easy to clean and autoclavable. They are much less prone to breakage than the traditional porcelain types.

- Rugged construction
- Top part has perforated filter plate
- Parts snap together to give vacuum seal
- Corrosion free polypropylene construction
- Available in 70 and 110mm diameters

Type	Order code	1+
70mm	**52-1498**	2.19
110mm	**52-1500**	4.66

122498

RVFM

Glass Funnels

Plain glass funnels for general-purpose laboratory use. The funnels have straight, non-tapering tubes, ideal for inserting into the holes in flask bungs.

- **ISO DIS 4798** approved
- Supplied in **packs of 10**

Type	Order code	1+
55mm	**52-0232**	23.76

066664

RVFM

Glass Funnels

A range of funnels made from borosilicate glass.

- Available in **55mm** or **75mm**
- Supplied **singly**

Size	Order code	1+
55mm	**52-9130**	1.99
75mm	**52-9132**	2.09

082584

RVFM

Powder Funnels

These polythene funnels have wide, parallel stems and are ideal for transferring powders.

- Corrosion free polypropylene construction
- Available in 80, 100 and 150mm diameters

Type	Order code	1+
80mm	**52-1502**	0.64
100mm	**52-1504**	0.92
150mm	**52-1506**	1.78

122499

RVFM

Funnel Holder

Holders for suspending funnels on retort stands.

- Holds funnels 76 to 152mm
- Supplied with adaptor for 25 to 76mm funnels
- Corrosion free polypropylene construction
- Includes tapered wedges to ensure firm grip on both 9.5mm (3/8in.) and 12.7mm (½in.) retort stand rods

Type	Order code	1+
Funnel holder	**52-1464**	1.84

122491

RVFM

Separator Funnel Holder

Holders for suspending separatory funnels on retort stands.

- Front opening gives clear view of solution
- Allows unobstructed placement of funnel
- Corrosion free polypropylene construction
- Includes tapered wedges to ensure firm grip on both 9.5mm (3/8in.) and 12.7mm (½in.) retort stand rods

Type	Order code	1+
Separator funnel holder	**52-1466**	2.38

122492

RVFM

Twin Funnel Holder

A polypropylene funnel holder that can securely hold funnels from 75 to 150mm diameter (25 to 75mm with included holder plate). The holder has two tapered wedges to enable it to be firmly secured to retort stands of diameters 9.5 to 12.5mm.

- Corrosion free

Type	Order code	1+
Funnel holder	**52-1294**	13.95

081802

RVFM

NEW

Wooden Funnel Holder

This wooden **funnel holder** can keep two funnels securely held in place over jars, beakers or other receptacles.

- Double sided
- Closed holes

Type	Order code	1+
Double sided	**52-2151**	4.45

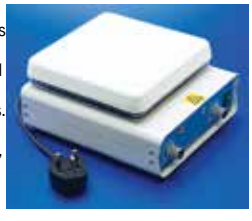
549125

Hot Stirrer

medline scientific limited

MS-300 Hot Plate Stirrer

The Medline MS-300 Hot Plate Stirrer offers a large heating area of 180 x 180mm and is ideal for use with flat-bottomed vessels. With safe, controlled heating up to 400°C, the Medline MS300 provides a safer, more accurate heat source than the conventional Bunsen burner arrangement. The speed of the built-in magnetic stirrer of the Medline MS-300 Hot Plate Stirrer can be controlled between 100 and 1500rpm.



The Medline MS300 Hot Plate Stirrer can be yours with Free Post and Packing, or for urgent requirements, please select our Next Day Delivery Service.

- Heating area 180 x 180mm
- Temperature up to 400°C
- Stirrer speed 100 to 1500rpm
- Operating voltage 220V AC
- **Medline type MS-300**

Type	Order code	1+
Hot plate stirrer	**52-0449**	189.99

500331

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Sieves

Rapid
…where price meets quality

Heating Mantles

E Series Temperature Controlled Heating Mantles

Medline E Series Temperature Controlled Heating Mantles have Nichrome wire heating elements and woven glass fibre mat mantles. An important addition to any science laboratory, the Medline E Series mantles benefit from rugged steel construction and can heat up to 450°C.

- Nichrome wire heating element
- Mantle made from woven glass fibre mat
- Steel case construction with chemical-resistant coating
- Moulded silica powder thermal insulation
- Temperature range up to 450°C (Max.)
- Power Supply: 220V AC

Technical specification

Model No.	Capacity	Watts
E1005	50ml	60 W
E101	100ml	
E102	250ml	150 W
E103	500ml	260 W
E104	1000ml	350 W

Type	Order code	1+
50ml	**52-0451**	72.20
100ml	**52-0835**	113.99
250ml	**52-0453**	123.99
500ml	**52-0455**	149.99
1 litre	**52-0457**	158.32

500332

Calorimeters

Joule's Calorimeter

A Joule's Calorimeter for experimenting with the conversion of electrical energy into heat energy. The calorimeter consists of a nickel-plated copper outer vessel with a lagged copper inner vessel. The cover has terminals for the 3 to 6V heating coil, a built-in stirrer and a hole for a thermometer to record the temperature changes.

- Apparatus for experimenting with the conversion of electrical energy into heat energy
- Nickel-plated copper outer vessel
- Copper inner vessel
- Felted wool cloth lagging
- Outer vessel is 100mm tall and 75mm in diameter
- Inner vessel is 75mm tall and 50mm in diameter
- 3 to 6V heating coil, Max. current 1A
- Built-in stirrer
- Hole for a thermometer (not included)

Type	Order code	1+
Joule's Calorimeter	**52-9535**	15.99

501638

Free Delivery*
on all orders over £30 (excl. VAT)
(UK mainland only)
* See Terms & Conditions for full details

Aluminium Calorimeter

NEW

This value-for-money **calorimeter** makes an ideal addition to the school or college science lab as a means of measuring **heat** in chemical reactions and other processes.

- Inner and outer vessels made of aluminium
- Transparent lid with holes to accommodate heating element
- Removable spring heating element
- Stirrer
- Built in thermometer cork
- 0 to 6V DC operating range
- Suitable for **Key Stage 3**

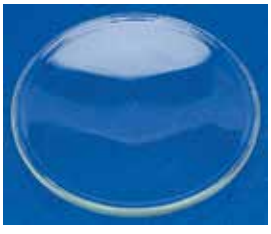
Thermometer not included.

Type	Order code	1+
Aluminium Calorimeter	**52-2099**	4.65

549097

Watch Glass

Watch Glasses



A range of watch glasses made from clear, polished glass with a ground edge.

- Available in **50mm, 75mm, 90mm** and **100mm** diameters
- Supplied in **packs of 10**

Diameter	Order code	1+
50mm	**52-9136**	2.69
70mm	**52-9138**	2.99
80mm	**52-9140**	4.24
100mm	**52-9142**	4.90

082586

Gas Washing Bottles

Gas Washing Bottles

Simax gas washing bottles manufactured from borosilicate glass.

- Capacity 100ml
- Overall height 250mm
- Height of bottle 200mm
- Inlet/outlet pipe diameter 8mm
- Supplied **singly**

Type	Order code	1+
100ml	**52-0982**	14.67

073136

Electrophoresis

Battery Powered Electrophoresis Hardware System

Introduce your students to electrophoresis with this complete, safe, affordable, and easy-to-use system.

- Expose your students to the physical and chemical properties of DNA using electrophoresis
- Economical system includes a battery-operated electrophoresis chamber featuring pure platinum electrodes and ten capillary micropipets
- Also included are ready-to-use reagents to isolate DNA from wheat germ, onion, bacteria, or even liver as well as solutions to run and stain the DNA
- Your students will isolate and observe DNA from onion cells
- Describe the appearance and physical characteristics of isolated DNA
- Understand the principles and practice of electrophoresis
- Demonstrate the use of electrophoresis
- Identify advances and uses of biotechnology and discuss its risks and benefits
- Suitable for **Key Stages 3, 4 & A Level** (ages 11 to 18)

Type	Order code	1+
Hardware System	**06-6486**	166.84

079062

Thermometers

Forehead Thermometer

This mercury free forehead thermometer takes body temperature on contact and reading within seconds.

- Simple to use
- Re-useable
- Reads from 35°C-40°C (95°F-104°F)
- Comes complete with a plastic storage box and full instructions

Type	Order code	1+
Forehead thermometer	**85-2643**	0.989

072994

Rainbow Dial Thermometer

White 300mm diameter rainbow dial thermometer with black temperature scale.

- Moulded in a plastic window for safety
- Suitable for outside and patio use
- Ideal for primary school use
- Suitable for **Key Stages 1 & 2** (ages 5 to 11)

Type	Order code	1+
Rainbow dial	**85-2651**	6.98

073002

Brannan

General Purpose Glass Thermometers

A 305mm, general-purpose glass thermometer with red spirit filling.

- Scaling from –10°C to +110°C in 1°C steps
- Can measure both the freezing and the boiling points of water, etc.
- Fitted with hanging hook/anti roll device
- Calibration is correct when immersed 76mm into liquid

Type	Order code	1+	5+	10+
305mm thermometer	**87-4308**	3.94	3.71	3.14

060615

Brannan

Breaksafe Thermometer

This breaksafe safety coated thermometer is encapsulated in PVC to contain any glass or filling material in event of breakage.

- Available in a range of –10 +110°C
- Clear permanent markings
- Green filled
- Partial immersion
- Length 200mm

Type	Order code	1+
Breaksafe thermometer	**85-2655**	4.12

073000

Brannan

Green Fill Laboratory Thermometers

These green fill laboratory thermometers are a safe alternative to traditional mercury filling.

- Moulded glass triangular top to prevent rolling
- Available in 150mm, 200mm and 300mm lengths
- 150mm thermometer is available in total immersion and the 200mm and 300mm thermometers are available in partial immersion
- Temperature range –10 to +110°C
- Clear permanent markings

Type	Order code	1+
150mm	**85-2652**	1.28
200mm	**85-2653**	1.31
300mm	**85-2654**	1.35

072999

Brannan

Uncalibrated Mercury-Free Laboratory Thermometer

This green fill, mercury-free uncalibrated thermometer is suitable for laboratory use. Students can calibrate the thermometer themselves, by conducting experiments, for example, by establishing the melting point of ice and the boiling point of water.

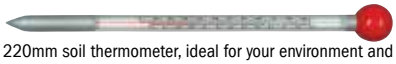
- Moulded glass non-roll device to help prevent breakage
- Mercury free
- Uncalibrated to meet the National Curriculum requirements for student calibration
- Temperature range -10 to +110°C
- 300mm length

Type	Order code	1+
Uncalibrated thermometer	**85-2642**	0.663

072993

Brannan

Soil Thermometer



220mm soil thermometer, ideal for your environment and biology studies.

Type	Order code	1+
Soil thermometer	**87-4330**	4.91

066675

Brannan

Lo-Tox Thermometers

Thermometers containing Lo-Tox - an organic filling specially chosen to achieve a wide temperature span and provide the lowest practical levels of hazard, making these an ideal substitute for mercury thermometers.

- Range: -20 to +110°C
- 305mm long
- 76mm immersion
- 1 division per degree
- **Supplied singly**

Type	Order code	1+
-20 to +110°C	**87-4336**	3.05

066677

Brannan

Mercury Free Max Min Thermometer

A traditional style maximum/minimum thermometer.

- Environmentally friendly filling
- Ideal substitute to mercury models

Type	Order code	1+
Max./min.	**87-4322**	4.54

066669

Brannan

Window Thermometer

65mm diameter window thermometer with blue and red temperature scale.

- Temperature given in °C and °F
- Reads the outside temperature from indoors
- The transparent design of the thermometer allows the temperature to be viewed from inside the classroom
- Nominal range –20°C to +50°C

Type	Order code	1+
Window thermometer 65mm	**85-2650**	1.96

073003

RVFM

Window Thermometer

This compact windowpane thermometer has extra large numerals that can be easily read from right across a room.

- Clear vinyl dial clings to the outside of your window like a car tax holder
- Requires no fixings
- Main scale in Centigrade, with smaller markings in Fahrenheit
- Range –50° to +50°C
- Mechanism 80mm diameter
- Overall diameter 180mm

Price each – MOQ 5+

Type	Order code	5+
Window thermometer	**06-6530**	15.65

079077

RVFM

Window Weather Station

This windowpane thermometer and hygrometer are supplied with extra large numerals that can be easily read from right across a room.

- Clear vinyl dials cling electrostatically to the outside of your window (like a car tax holder), so requires no fixings
- Upper main scale in Centigrade, with smaller markings in Fahrenheit lower dial reads humidity (a good indicator of comfort)
- Range of thermometer –50° to +50°C
- Range of humidity scale 0% to 100% in steps of 10

Type	Order code	1+
Weatherstation	**06-6528**	50.71

079076

Brannan

Classroom Thermometer Kit

A selection of thermometers ideal for use in the classroom.

- 8x 150mm green filled thermometers
- 7x 300mm green filled thermometers
- 1x 300mm uncalibrated green filled thermometer
- Teaching notes and photocopiable worksheets
- Suitable for all ages
- **Supplied as a pack**

Type	Order code	1+
Classroom kit	**87-4324**	26.09

066672

Brannan

Stainless Steel Dial Fridge/Freezer Thermometer

Stainless steel 50mm dial fridge/freezer thermometer with black temperature scale indicating recommended zones.

- Bimetallic dial thermometer with zones on scale
- Hangs or stands
- Temperature given in °C only
- Size: 85 x 65 x 12mm

Type	Order code	1+
Dial fridge/freezer therm.	**85-2646**	3.33

072997

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Brannan

Horizontal Fridge/Freezer Thermometer

Horizontal fridge/freezer thermometer with blue temperature scales indicating recommended zones.

- Moulded in white plastic with hanging clip and stand
- Provides temperatures in °C only
- Size: 130 x 40 x 22mm

Type	Order code	1+
Fridge/freezer thermometer	**85-2644**	1.31

072995

Brannan

Dial Fridge/Freezer Thermometer

White 65mm dial fridge/freezer thermometer with blue and red temperature scale indicating recommended zones.

- Plastic bimetal dial thermometer with zones
- Temperatures given in °C only
- Size: 85 x 65 x 12mm

Type	Order code	1+
Dial thermometer 65mm	**85-2645**	1.80

072996

VOLTCRAFT®

LCD Digital Thermometer and Clock

The Voltcraft LCD digital thermometer and clock has an extended temperature range up to 110°C for many ranges for temperature monitoring.

There are two limit values that can be pre-adjusted, and when this value is reached, a switch output and an alarm output are activated.

- Temperature range -10°C to +110°C
- Accuracy: ±1°C
- Measurement rate: 1 or 10 secs
- Temperature resolution: 0.1°C
- Digit height: 13mm
- Operating voltage: 1x AA batteries
- Dimensions: 68(W) x 35(H) x 24(D)mm

Please Note: *Requires 1x AA battery (not supplied).*

Technical specification

Accuracy	± 1°C
Digit height	13mm
Dimensions	68(W) x 35(H) x 24(D)mm
Measurement range - temperature	-10°C to +110°C
Measurement rate	1 or 10 secs
Operating voltage	1x AA battery
Temperature resolution	0.1°C

Type	Order code	1+
Digital Thermometer	**51-5169**	8.50

525180

VOLTCRAFT®

DET1R Penetration Thermometer

The Voltcraft DET1R gives a broad temperature measurement range that can be used in numerous application areas in the household and gastronomy.

- Min/max storage:°C/°F
- Measurement range: -10°C to +200°C
- Swivelling display
- Supplied with Voltcraft DET1R penetration thermometer, protective cover with clip, 1 battery (type: LR44) and user manual

Protective cover with clip, 1 battery (type: LR44), User manual.

Technical specification

Basic accuracy	±5%
Calibration possible to	ISO / DKD
Dimensions	181(L) x 47(W) x 17(D)mm
Power supply	1x LR44
Resolution	0.1°C
Sensor length	110mm
Sensor type	K-type
Temperature range	-10°C to +200°C
Weight	30g

Type	Order code	1+
Voltcraft DET1R	**51-5170**	10.20

525181

VOLTCRAFT®

DET3R Penetration Thermometer

The Voltcraft DET3R is a penetration thermometer that is ideal for measurements in the food industry, butcheries, food testing laboratories and for health inspectors. Having a waterproof casing makes it suitable for use in liquids. The simple and quick execution of zero balance in ice water ensures higher accuracy for longer period.

- Min/ Max Hold Memory with dynamic update
- C/F switch
- T90 Measure time approx. 8 seconds
- Auto-switch-off
- Continuous measurement function
- Measuring range -40°C to +250°C
- Waterproof as per the IPx7 standard
- High accuracy by simple calibration in ice water
- Supplied with Voltcraft DET3R penetration thermometer, protection cap with clip, 1x LR1 battery and user manual.

Protection cap with clip, 1x LR1 battery, user manual.

Technical specification

Basic accuracy	±0.5C
Calibration possible to	ISO / DKD
Dimensions	(L x W) 218(L) x 25(W)mm
Power supply	1x LR44
Resolution	0.1°C
Sensor length	105 mm
Sensor type	Penetration sensor
Temperature range	-40°C to +250°C
Weight	34°g

Type	Order code	1+
Voltcraft DET3R	**51-5210**	13.61

525221

VOLTCRAFT®

Temp/rH, WDL-TH Data Logger

The Voltcraft WDL-TH Temp/rH, WDL-P Pressure and WDL-K Temp Type K Data Loggers have been designed for measuring temperature, humidity and air pressure. Featuring internal memory for max. 5,000 data sets. The readings can only be transmitted to a PC for analysis and storage using the ìWDL-PC Wireless Data Logger USB Dongleî (optionally available). Power is supplied via a Ω AA battery. only to be used indoors.

Technical specification

51-5374	
Battery life	max. 205 days
Measurement range - temperature	-40°C to +70°C
Measurement range(s)	Temperature -40 to +70°C / Humidity 0-100 RH%
Measuring range - humidity	0-100% RH
Resolution	0.1°C
Type (manufacturer type)	WDL-TH
51-5375	
Type (manufacturer type)	WDL-P
51-5376	
Type (manufacturer type)	WDL-K

Type	Order code	1+
WDL-TH	**51-5374**	26.38
WDL-PWL	**51-5375**	6.36
WDL-KWL	**51-5376**	11.46

525261

ETI

ETI 810-930 Digital Thermometer

This easy-to-use, economical digital thermometer features a large, clear display with a 0.1°C or 0.1°F read-out of temperature over the range of -50°C to +150°C.

- The instrument is supplied with a detachable, stainless steel penetration probe (3.3mm dia x 120mm) and one metre connecting lead
- Features both a display hold and max/min memory function
- Includes 1x AAA battery, suitable replacement is **18-1902**

Technical specification

Range	-50°C to +150°C
Resolution	0.1°C/°F
Accuracy	±1°C ±1 digit
Battery	1x AAA
Sensor	thermistor
Display	12.7mm LCD
Dimensions	20 x 65 x 97mm
Weight	100g

Type	Order code	1+	5+	10+
Digital thermometer	**85-2460**	16.58	15.32	14.24

036269

VOLTCRAFT®

IR 110-1S Infrared Thermometer Optics

The Voltvraft IR-110-1S mini infrared thermometer is intended for non-contact measuring of temperatures of -33°C to +110°C. The IR-110-1S can also be used as a clock or a stopwatch. It is not suitable for industrial or medical use. The product is powered by a CR2032 battery.

- Small, convenient and accurate
- The ideal companion with a wide variety of optional features
- Min/ Max function
- Automatic power off after 15 seconds
- Duration measuring activated
- Integrated clock
- Stopwatch
- Display of the room temperature
- Switchable between C and F
- Optics 1:1
- Measuring range -30°C to +110°C
- Integrated stopwatch

Lithium battery (CR2032), Manual.

Please Note: *Use only in a dry indoor environment.*

Please Note: *It is not suitable for industrial or medical use.*

Technical specification

Accuracy	±2.5°C or 2.5%
Dimensions	33(W) x 73(H) x 14(D)mm
Emissivity	0.95 fix
Measurement range - temperature	-33°C up to +110°C
Optics	1/1
Pick-up time	<1 secs
Power supply	Lithium Battery CR2032
Operating temperature	0°C to +50°C
Battery life	40 hours in continuous operation.
Temperature resolution	0.2°C
Weight	25g

Type	Order code	1+
Voltcraft IR 110-1S	**51-5190**	12.75

525201

Tel: 01206 751166 Fax: 01206 751188

RVFM

RVFM Infrared Thermometer

This portable low cost infrared thermometer, offers the solution for many non-contact temperature measurement applications. The thermometer has a pear shape that fits nicely in the hand. The kit comprises of an infrared thermometer, one CR2032 lithium battery and a neck strap.

- High accuracy
- Fast response
- Advanced ambient temperature compensation technology
- Auto power off function
- Fixed emissivity; 0.95 for most substances
- Strip hole design for neckstrap (supplied)
- Built-in magnet at the back, that is suitable for refrigerator doors and other metal surfaces
- **CE** approved

Technical specification

Display	3 digit liquid crystal display (LCD) with a maximum reading of 1999
Low battery	Displayed when the battery voltage drops below the operating level
Battery	1x CR2032 lithium
Battery life	36 hours
Auto power off	6 seconds
Operating	+10°C to +40°C R.H. <70%
Storage	–20°C to +60°C R.H. <80% (no battery)
Dimensions	73.5mm (H) x 39mm (W) x 18mm (D)
Weight	Approx. 39gms inc. battery
Temperature range	–20°C to 220°C
Display resolution	0.1/1°C (auto)
Accuracy	±0.5°C on 15°C to 45°C ±2°C on 45°C to 100°C ±3°C or ±3% on the rest of the range Accuracy stated at ambient temperature 18°C to 28°C R.H. <70%
Response time	0.5 seconds
Detection element	Thermopile
Field of view	01:01.1
Spot size	1.1cm at distance 1cm

Type	Order code	1+
Model 121	**85-2434**	9.69

071172

RVFM

Infrared Thermometer

A portable gun type, non-contact infrared thermometer operated by one hand, with laser for accurate surface marking. Designed for measuring surface temperature of objects which are difficult to reach or unsafe to contact, hot spots in electrical panels and equipment and in-process temperature measurements.

- Temperature range: –30°C to 550°C
- Large backlit LCD display
- Auto DATA HOLD function after releasing trigger button
- Auto power off after 10s
- Response time of 0.25s
- Recommended spare PP3 battery (order code **18-4230**)

Type	Order code	1+
IR Thermometer + laser	**85-2478**	12.00

068142

Scheduled orders

Rapid will store your order FREE OF CHARGE and then deliver the required amount along with an individual invoice on your specified dates.

Fax your scheduled order and required dates to:

01206 751188

Scales

RVFM

Portable Digital Scales

A low-cost portable electronic scale with a weighing capacity of 2kg/4lb. 8oz. It comes with the following features:

- Low-cost and portable
- Constructed of hi-grade ABS plastic with non-slip rubber feet
- High contrast 17mm LCD display
- Function indicators with positive action buttons
- Slide selection switch selects the grams or ounce range
- Overload protection is incorporated to twice the scales capacity
- Featured tare facility allowing the scales to be zeroed
- Easy to set up check weighing program
- Emits an hi-frequency audio alarm in stages as weight is applied
- A low battery indicator shows when battery is to be replaced
- Supplied with comprehensive instructions for use
- An optional 150mm diameter bowl is available which features a base recess that locates securely over the scale pan, please see below

Requires 1x 9V PP3 battery (not included), or alternatively a 9V 300mA power supply with 3.5mm jack connection (not included).

Type	Order code	1+	3+
CB-2K 2kg Scale	**85-2350**	36.76	34.99
Weighing Bowl	**85-2360**	1.64	1.52

070900

KERN

School Scales

These scales are ideal for general purpose weighing in laboratory environments through to quality control applications.

- Only two function keys
- Very easy to use
- Large 16mm LCD display
- Adjustment program CAL
- Battery powered (supplied) or by optional AC/DC power adaptor
- Impact resistant ABS case with non-slip rubber feet
- Splash-proof membrane keypad

Technical specification

Kern No.	**EMB 200-2**	**EMB 2200-0**	**EMB 5.2K5**
Readout	0.01g	1g	5g
Weigh range	200g	2,200g	5,200g
Stabilisation	2 to 3 secs	2 to 3 secs	2 to 3 secs
Auto-off (batt)	After 3 mins	After 3 mins	After 3 mins
Operating temp	0°C to +40°C	0°C to +40°C	0°C to +40°C
Battery supply	1x 9V	2x AA	2x AA
Mains adaptor	85-1681	85-1681	85-1681
Dimensions (mm)	170(W) x 240(D) x 39(H)	170(W) x 240(D) x 39(H)	170(W) x 240(D) x 39(H)
Weight approx.	600g	600g	600g
Order code	**85-2356**	**85-2358**	**85-2359**

Kern No.	**EMB 500-1**	**EMB 5.2K1**
Readout	0.1	1
Weigh range	500g	5200
Stabilisation	2 to 3 secs	2 to 3 secs
Auto-off (batt)	After 3 mins	After 3 mins
Operating temp	+5°C to +35°C	+5°C to +35°C
Battery supply	1x 9V	1x 9V
Mains adaptor	85-1681	85-1681
Dimensions (mm)	170(W) x 240(D) x 38(H)	170(W) x 240(D) x 38(H)
Weight approx.	0.5kg	0.5kg
Order code	**85-3436**	**85-3437**

Type	Order code	1+
EMB 200-2 Scales	**85-2356**	91.37
EMB 2200-0 Scales	**85-2358**	36.21
EMB 5.2K5 Scales	**85-2359**	37.25
EMB 500-1 Scales	**85-3436**	39.64
EMB 5.2K1 Scales	**85-3437**	39.64

071952

KERN

Precision Balances

These are the ideal entry-level models for all laboratory technicians.

- Excellent value for money in this performance class
- Many multiple functions are at users disposal
- Can be used for parts counting and also for weighing different mixtures
- Data transfer to printer or PC function
- Four function keys
- Protective working cover as standard
- Includes test weight, **DKD** approved
- Supplied with an AC/DC mains power adaptor

Technical specification

Kern part No.	440-35N
Readout	0.01g
Weighing range	400g
Stabilisation time	3 seconds
Auto-off function (batt. mode)	After 3 minutes
Operating temperature	+10°C to +40°C
Dimensions	165(W) x 230(D) x 80(H) mm
Weight approx.	1kg
Order code	85-2361

Type	Order code	1+
440 35N Scales	**85-2361**	261.98

071956

medline scientific limited

White Diamond Square Weighing Dishes

These Medline 'White Diamond' weighing dishes are made of white, translucent polystyrene and are easily bent into pouring spouts for non-spill transfer of liquids. They are biologically inert, contaminant-free and are resistant to diluted acids, aqueous solutions, alcohols and bases.

- Suitable for microwave
- Will withstand temperatures from –10 to +80°C
- Not antistatic
- 5ml size are supplied in **packs of 250**
- 30ml size are supplied in **packs of 500**
- **Medline types 1911103** (5ml) and **1911104** (30ml)

Technical specification

Nominal capacity	Dimensions	Weight
5ml	41 x 41 x 8mm	0.34g
30ml	89 x 89 x 25mm	1.07g

Type	Order code	1+
5ml (250)	**85-2366**	2.59
30ml (500)	**85-2349**	8.19

500328

SALTER

Electronic Disc Kitchen Scale

The Salter Disc Scale's Add & Weigh function allows you to measure multiple ingredients in the same bowl - saving you washing up!

- Weigh ingredients directly onto the scale or use your own bowl
- Switch between g / kg and oz. / lb
- Easy to read LCD display
- Compact slim design for easy storage
- Contemporary design
- Capacity: 5kg / 11lb
- Resolution 1g / 0.1oz.
- Powered by a single Lithium CR2032 battery (included)
- Manufacturer's 15-year guarantee
- **Salter model 1036 BKSSDR**

Type	Order code	1+
Salter disc scale	**52-7245**	12.45

300580

RVFM

Platform Weighing Scale

A platform scale with a simplified, clutter-free dial that aids quicker learning by showing only kilograms and grams.

- Measures up to 3kg
- Size: 60 x 50mm

Type	Order code	1+
Platform scale	**06-7103**	7.95

547667

RVFM

NEW

Kitchen Scales 5000g

This **kitchen scale** has a 5000g capacity and graduations of 1g/0.1oz. Equipped with an easy-view LCD display and powered by 2x CR2032 lithium batteries.

- Display modes: grams and ounces
- Key function: On/Off; Tare/Mode
- 1.1L container (optional)
- Low-battery indication/Over-load indication
- Auto/Manual shut-off
- Manufacturer's part **P02035**

Type	Order code	1+
Kitchen Scales	**52-2209**	13.35

549162

Trolleys

RVFM

3-Shelf Lightweight Laboratory Trolley

This rugged, general-purpose Laboratory Trolley has 3 chemical-resistant shelves and a Load Rating of 250kg despite weighing only 13.7kg itself.

- Lightweight construction - only 13.7kg
- Load rating 250kg
- 100mm precision bearing castors with 2 brakes
- Attractive, ergonomic appearance
- Constructed from high quality nylon fibre blended polymers
- Resistant to harsh working conditions
- Supplied flat-packed - easy assembly

Technical specification

Load rating	250kg
Assembled size	850 x 480 x 1020mm (L x W x H)
Shelf area	680 x 450mm
Flat-pack dimensions	800 x 510 x 290mm
Weight	13.7kg

Type	Order code	1+
3-Shelf Trolley	**70-6520**	204.95

519525

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01206 751166

Science Kits

Bath Bomb Factory

Create your own luxurious frothy bath bombs! Loads of fascinating fizzy activities with bath bomb. This amazing kit from Wild Science will allow the children to have good clean fun.Experiment with all the ingredients and make your own scented Bath Bombs, Phunny Phoam, Magic Tricks and much, much more.

As well as being fantastic, fizzy and fascinating, the Bath Bomb factory also teaches you about the science behind 'fizz' and the changes that occur when materials are mixed. Experiments included support National Curriculum Science Key stage 2. For ages 10 years and over.

- No batteries required
- Contents may vary from those indicated

Type	Order code	1+
Bath bomb factory	**06-8354**	10.65

121812

Perfume Laboratory

Mix, shake, extract and blend your own secret formula heavenly scents with your own private perfumery. You can also follow the other experiments to grow scented crystals, gross out Mum with sublime burp slime, make forest pourri, scented note paper and much more.

As well as being fun, this kit is also educational and will teach you all about your sense of smell, one of our most useful senses. Each kit contains enough material for the experiments to be repeated several times. This kit is highly recommended by the good toy guide and supports National Curriculum Science Key Stage 2. Suitable for ages 8 years and over.

- Contents may vary slightly from those shown
- Batteries not required

Type	Order code	1+
Perfume laboratory	**06-8356**	10.65

121814

interplay

Luxury Soap Science

Discover the science of soap while you make super soap shapes, soap snowballs, arty soap sculptures and statues, super soap shapes, including fragrant flowers and fabulous fairies, gardeners and mechanics soap and much more.

Create multi-coloured creatures and flowers that float in transparent bars. Blend colours and perfumes for your own signature soap. Mould and create soap sculptures. Experiment to make astonishing new soaps and make unique gifts for friends. This kit contains enough materials for the many amazing soap projects and sculptures in the booklet.

Wild Science is a range of science kits with real attitude. They are designed to have great play value while exploring scientific concepts and skills and they support the National Curriculum. Ideal for ages 10+.

- No batteries required
- Contents may vary from those indicated

Please note: Requires the use of a microwave oven.

Type	Order code	1+
Luxury soap science	**06-8358**	10.39

121813

Lakeshore

NEW

Science Discovery Chest

This **science discovery chest** from **Lakeshore** is a fantastic addition to any classroom, presenting an ideal introduction into the world of science. The easy to use chest features hands-on experiments and materials for young children to explore basic scientific concepts. The full chest contains: 6 subject draws and over 100 items including rocks, seeds, measuring cups and spoons, giant magnets, prism, thermometers, balloons, feathers and 40 double-sided experiment cards.

- Great for the classroom!
- Easy to use
- Dimensions: 32 x 31 x 49cm
- Manufacturer's part **C1534**

Type	Order code	1+
Science Chest	**52-2316**	229.99

548362

RVFM

Acids, Bases and the pH Scale

In this lab, you will gain an understanding of the basic differences between the properties of acids and bases. Know the role of hydrogen and hydroxide ions in acids and bases. Comprehend the nature of the pH scale with regards to acid and base strength. Students will examine the effects of acids and bases on several chemical pH indicators, determine the pH of several common household materials, and use the knowledge gained to determine the composition of four unknown clear solutions.

- Kit contains enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x	Deionized water, 25ml
1x	Dilute acid (0.1M HCl), 25ml
1x	Dilute base (0.1M NaOH), 25ml
1x	0.5% Litmus, 25ml
1x	0.02% Methyl red, 25ml
1x	0.5% Bromothymol blue, 25ml
1x	1.0% Phenolphthalein, 25ml
1x	Vinegar, 25ml
1x	Household ammonia, 25ml
1x	Soap solution, 25ml
1x	Filtered water, 25ml
1x	Vitamin C solution, 25ml
2x	Wide-range pH test strips, packet of 50
1x	Unknown solution #1, 25ml (Water)
1x	Unknown solution #2, 25ml (Dilute base)
1x	Unknown solution #3, 25ml (Phenolphthalein)
1x	Unknown solution #4, 25ml (Dilute Acid)
15x	Reaction trays

Type	Order code	1+
Acids, bases and pH scale	**52-9169**	107.95

082723

RVFM

Chemical Identification of Biomolecules

Understand the importance of proteins, carbohydrates, and lipids in living organisms. Students will learn to identify a positive test result for proteins using biuret reagent, examine the reaction between Benedict's reagent and a simple sugar, use iodine/potassium iodide to test for the presence of starch, and test for the presence of lipids using a fat-soluble dye.

- There are enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x	Iodine/potassium iodide solution, 25ml
1x	Biuret reagent, 25ml
1x	Benedict's solution, 25ml
1x	1.0% Sudan III stain, 25ml
1x	Vegetable oil, 25ml
1x	Soluble starch, 10g
1x	Albumin, 10g
1x	Glucose, 10g

Type	Order code	1+
Chemical identification	**52-9170**	74.95

082724

RVFM

Green Chemistry: an Alternative Iodine Clock Reaction

Learn the mechanisms and reactions in a clock reaction and understand how clock reactions provide insights into reaction kinetics. After assembling, performing, and obtaining data from several clock reactions students alter conditions and investigate the effects. The effects of both concentration and temperature are investigated.

- Sufficient materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

3x	Ascorbic acid 1.7%, 100ml
3x	IKI Dilute Lugol's solution, 100ml
2x	Hydrogen Peroxide 3%, 200ml
1x	Starch, soluble, 3g
30x	Plastic cups
30x	Stir sticks
60x	Measuring cups, disposable
60x	Pipettes, disposable

Type	Order code	1+
Iodine clock reaction	**52-9171**	65.49

082725

RVFM

Nanotechnology: Ferrofluids

Understand the current definition of nanotechnology. Learn about one nanomaterial (ferrofluid) and its applications in modern technology. Create magnetite nanoparticles through a precipitation reaction employing a surfactant to create a colloidal suspension of magnetite nanoparticles. Examine the response of ferrofluid upon exposure to a magnetic field.

- There are enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x	Ferrous Chloride 1g
1x	Ferric Chloride 22g
1x	10N Hydrochloric Acid, 20ml
2x	Ammonium Hydroxide, 25ml
1x	Tetramethylammonium Hydroxide 20g
15x	Pipettes
15x	Petri dishes

Type	Order code	1+
Nanotechnology ferrofluids	**52-9173**	70.95

082727

RVFM

Green Chemistry: Detergents and the Environment

Understand the consequences of cultural nutrient overloading on the aquatic environment. Recognize that there may be alternative, more environmentally-friendly alternatives in typical consumer chemical goods. Demonstrate and monitor the effects of two detergent builders on natural water samples. Visually quantify the differences between phosphate and non-phosphate detergent builders on aquatic organisms.

- There are enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

1x	Phosphate builder (10% sodium phosphate) solution, 50ml
1x	Non-phosphate builder (10% sodium silicate/5% citric acid) solution, 50ml
1x	Control (deionized) water, 50ml
45x	Plastic cups
1x box	Microscope slides
1x box	Coverslips

Materials needed but not included in the kit:
Natural water sample (collected locally)
Aged tap water
Marking pens
Optional:
Microscopes
Plastic wrap or similar

Type	Order code	1+
Green chem: detergents	**52-9176**	65.95

082730

RVFM

Green Chemistry: Hydrogen Fuel Cell Demonstration

In this demonstration, energy will be produced from combining hydrogen and oxygen to form water. Platinum will serve as the catalyst and electrodes will be prepared by coating metal mesh with platinum. The hydrogen and oxygen will come from electrolysis. After the cell is set up, a brief current is applied (with a 9-volt battery) causing the formation of hydrogen gas bubbles on one electrode and oxygen gas bubbles on the other. Using a voltmeter, electricity produced by the recombining of hydrogen and oxygen, facilitated by the platinum metal catalyst, can be observed.

- Contains enough materials for 5 demonstrations
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

15x	Brass metal mesh squares
2x	Red connecting wires w/alligator clips
2x	Black connecting wires w/alligator clips
1x	D-cell battery holder w/clips
1x	Chloroplatinic acid 0.05M, 25ml
1x	Glass rod

Materials needed but not included in the kit:
Beaker, 50ml
D-cell battery
9-volt battery
Voltmeter (0-10V) or Multimeter
Water

Type	Order code	1+
Green chem: Hyd fuel cell	**52-9177**	54.49

082731

RVFM

Green Chemistry: Electrochemical Remediation of Wastewater

Water pollution is one of the largest threats facing the global population. Water is a finite resource. Once polluted, it cannot be set aside in the hopes that the environment will "make" new, clean water. One procedure often employed to treat wastewater is coagulation/flocculation. While the coagulation/flocculation procedure in wastewater treatment is effective, it involves the addition of chemical components to the water being treated. Recently, a great deal of attention has been given to less traditional alternatives to the typical process of coagulation/flocculation. One such approach receiving a good deal of attention is a process called electrocoagulation. Electrocoagulation is a coagulation process carried out by an electrical charge.

- There are enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

30x	Aluminum electrodes
15x	Red connecting wires w/alligator clips
15x	Black connecting wires w/alligator clips
1x	Sodium sulfate, 15g
1x	0.1% crystal violet, 15ml

Materials needed but not included in the kit:
200ml Beakers
9-volt batteries
Optional
Funnels, Filter paper

Type	Order code	1+
Green chem: wastewater	**52-9178**	97.95

082732

RVFM

Green Chemistry: Production of Biodiesel

In this activity, students will be performing a two-phase process to produce small batches of crude biodiesel. The crude biodiesel produced is of sufficient quality for use in the demonstration of the burning qualities of both biodiesel and vegetable oil. Included is an optional small-scale exercise where the students will use a washing procedure for the crude biodiesel if you wish to have the students experience the full process of producing biodiesel to meet quality levels necessary for use in vehicles.

- Sufficient materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

4x	Vegetable oil, 500ml
15x	Methyl alcohol, 25ml
1x	Potassium hydroxide, 20g
2x	Microburners

Materials needed but not included in the kit:
Beakers, 250ml
Graduated cylinders, 25ml
Graduated cylinders, 250ml
Thermometers
Hot plate/stirrers
Electronic balance
Parafilm (or similar)
Large pipettes and bulbs or separatory funnels or wash bottles.
Optional:
Containers with sealable caps large enough to hold 200ml of liquid
Distilled Water (if performing the washing process)

Type	Order code	1+
Green chem: biodiesel	**52-9179**	75.95

082733

RVFM

Environmental Chemistry: Nitrates, Phosphates and Eutrophication

Understand the importance and value of fresh water and the need to protect and conserve this valuable resource. Realize that a variety of factors, including natural ones, contribute to the overall problem of water pollution. After completing this lab, students should understand the difference between point source and non-point source pollution and understand the role of nitrates and phosphates in the process of eutrophication. They will observe and examine the effects of nitrates, the effects of phosphates, and the effects of a combination of nitrates and phosphates in miniature "ponds."

- There are enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

1x	Nitrate (10% sodium nitrate) solution, 50ml
1x	Phosphate (10% sodium phosphate) solution, 50ml
1x	Nitrate/Phosphate (5% sodium nitrate/5% sodium phosphate) solution, 50ml
1x	Control (deionized) water, 50ml
60x	Plastic cups
1x	bx Microscope slides
1x	bx Coverslips

Materials needed but not included in the kit:
Natural water sample (collected locally)
Aged tap water
Marking pens
Microscopes

Type	Order code	1+
Env. chem: nitrates	**52-9180**	65.95

082734

RVFM

Environmental Chemistry: Water Treatment and Filtration

Students will develop knowledge of the processes performed at a water treatment plant and understand the reasons for each process. They will perform, on a small-scale, several of the procedures that occur in a water treatment plant on "polluted" water. They will examine the changes in the water after each treatment step is performed. They will also observe physical characteristics of water, such as clarity, colour, odour, and how they are affected from the beginning of the treatment process until the end.

- There are enough materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

1x	Fine sand, 1500g
1x	Coarse sand, 1500g
1x	Fine gravel, 1500g
1x	Activated charcoal, 3000g
1x	Potassium aluminum sulfate (alum), 25g
1x	Calcium oxide (lime), 25g
1x	Kaolin (clay) powder, 5g
1x	Green food colouring, 5ml
1x	Odour agent (vinegar), 5ml
75x	Plastic cups
15x	Stirring sticks

Materials needed but not included in the kit:
Container large enough to prepare "Untreated Water"
Miscellaneous materials to prepare "Untreated Water", such as:
potting soil, lawn clippings, dried and crushed leaves, small twigs, mulch, etc.
Sharp item (such as a nail or dissecting probe) for students to poke small holes in the cups used for filtration

Type	Order code	1+
Env. chem: water treatment	**52-9181**	82.95

082735

RVFM

Environmental Chemistry: Acid Rain, Weathering and Erosion

Acid rain can be devastating to aquatic ecosystems and terrestrial areas. It not only effects naturally-occurring surfaces, such as rocky surfaces of mountainous regions, but man-made surfaces as well. Stones and metals used in buildings, statues and monuments may be affected by acid rain. Rates of erosion and weathering increase rapidly depending on the degree of acidic rain. In this activity, students expose naturally occurring and construction materials to an acidic environment and compare the reaction of these materials to those exposed to "normal" rain (tap water).

- Sufficient materials for 15 groups
- Teacher's manual and student copy masters are included
- Suitable for **Key Stage 3+** (age 11 and above)

Note: *Additional material is required to use this kit, see below for details.*

Technical specification

1x bag	Marble chips
1x bag	Brick chips
1x bag	Granite chips
1x bag	Limestone chips
1x bag	Sandstone chips
1x bag	Steel shot
1x bag	Copper shot
1x bag	Zinc shot
3x	Sulfuric acid concentrate (to make 500ml each)
120x	Measuring cups, disposable

Materials needed but not included in the kit:
Tap water
Graduated cylinders (10 or 25ml)

Type	Order code	1+
Env. chem: acid rain	**52-9182**	79.99

082736

RVFM

Forensic Chemistry: Dusting for Fingerprints

Identify and classify different types of fingerprints. Learn how to identify different types of fingerprints and distinguishing characteristics, as well as dusting for fingerprints, the most commonly used method of fingerprint detection.

- Includes a teacher's manual, student guide and analysis copy-masters
- There is enough material for 15 groups
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x bag	Fingerprinting powder
15x	Fingerprinting brushes
15x	Hand magnifiers
1x	Ink pad
1 pack	Acetate sheets

Type	Order code	1+
Forensic chem: fingerprint	**52-9183**	97.95

082737

RVFM

Forensic Chemistry: Hair Analysis

Discover how forensic scientists use hair in solving crimes. Uncover the differences between animal hair and the various types of human hair. Determine the origin of a hair sample from a crime scene in relation to hair samples from four known suspects.

- This activity includes a teacher's manual, student guide and analysis copy-masters
- There is enough material for 15 groups
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x box	Microscope Slides
1x box	Coverslips
15x	Forceps
	Deer, cat and 4x human hair samples

Type	Order code	1+
Forensic chem: hair anlys	**52-9187**	70.95

082741

Website
www.rapidonline.com

RVFM

Gun Shot Residue Presumptive Test Kit

This is a two part test to determine whether a surface has been exposed to a discharged firearm. A rapid colour change takes place to verify the presence of nitrates and lead.

- Each kit contains instructions and enough materials for 30 tests
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x	Diphenylamine Sulphuric Acid Solution, 5ml
1x	Sodium Rhodizonate, 0.025g
1x	Lead Nitrate, 5ml
1x	Aqueous Solution, 0.05M
20x	Alcohol Swabs

Type	Order code	1+
Gun shot residue test kit	**52-9184**	42.95

082738

RVFM

DNA/Chromosome Staining Lab Activity

Students prepare their own microscope slides, using the plant tissue, to view actual cells in different stages of mitosis. Specially grown and preserved plant root tips are included in the kit. Students first prepare and stain their samples, then perform a cell squash for microscopic observation. The material is grown and harvested under specific conditions to insure maximum mitotic activity is occurring at the time of preservation, allowing for multiple examples of every stage of mitosis on each microscope slide prepared. Students will learn about cell division and gain valuable experience in techniques such as tissue staining and microscopic observation.

- The kit contains enough material for 30 students working individually
- Suitable for **Key Stage 3+** (age 11 and above)

Technical specification

1x phial	Root tips
2x bottles	Hydrochloric acid, 6M
2x bottles	DNA/chromosome stain
1x box	Microscope slides/coverslips
30x	Aluminum trays
30x	Forceps

Type	Order code	1+
DNA Staining activity	**52-9185**	93.95

082739

RVFM

MicroScience MicroChem Advanced Kit

The MicroScience Advanced MicroChemistry Kit includes all the physical hardware required to perform the experiments in the basic kit, 52-0123 plus the following additional topics:

- Reduction of Copper Oxide
- The Zinc/Copper Cell
- Compounds
- Elements
- Pure Substances & Mixtures
- Conductivity & pH of Acids & Bases solutions
- Preparation of Oxygen & Hydrogen
- Preparation of Iron(III) Chloride
- Preparation of Copper(II) Chloride
- Organic Chemistry: Saturated & Unsaturated Hydrocarbons
- Extraction and Purification of Gold from its Ore - an Analogy using Copper
- The Reactions of a Metal with Oxygen

Type	Order code	1+
MicroChem Advanced	**52-0117**	34.99

517633

RVFM

MicroScience Basic Kit

The development of the Comboplate inspired other developments in physical apparatus that allow students the opportunity of performing over a hundred chemical experiments previously requiring macro-scale apparatus.

- **Topics that may be covered with this kit include:**
- Chemical Equilibrium
- Acid Base Chemistry
- Rates of Reaction
- Stoichiometry
- Reactions of Metals and their Salt Solutions
- Enthalpy Changes
- Reactivity of Group 7 Elements
- Industrial Pollution
- Diffusion
- Solubility of Sulphates in Water

Type	Order code	1+
MicroScience Basic	**52-0123**	21.79

517635

RVFM

Microchem Combostill

The Combostill is a microscale distillation unit, capable of reproducing experimental procedures normally accomplished with more expensive lab equipment.

- Its use is unlimited, it is completely safe, low-cost and the energy requirements for reactions are extremely low
- A starting manual is provided with each kit
- Kit contains: organoplate, ring stand, microburner, still-head, fraction collector and tray, thermometer, boiling chips, 4ml reaction vessel, 30ml heating vessel, distillation column, refluxing column, glass beads, silicon oil, silicon grease and rubber stoppers
- Suitable for **Key Stages 3, 4 & A Level** (ages 11 to 18)

Type	Order code	1+
Combostill	**52-0114**	61.99

066636

Phone
01206 751166

RVFM

Teacher Resource Files

These resource files provide a series of worksheets to assist with the teaching of biology and chemistry at **Key Stages 3 & 4** and **AS level**.

- Resources cover a wide range of practical experiments using the Innovative Microsciences System
- Each file contains notes on use and care of Microscale equipment
- Each worksheet includes: Risk assessment List of equipment and chemicals required Relevant specifications covered for **AQA, EDEXCEL, OCR and QCA** Detailed instructions
- Suitable for **Key Stages 3, 4 & A Level** (ages 11 to 18)

Type	Order code	1+
Key Stage 3 resource file	**52-0580**	34.78
Key Stage 4 resource file	**52-0582**	43.95

071616

RVFM

Understand pH

Discover the range of acidity and alkalinity of various foods and its effect on the function of our digestive enzymes. Students will appreciate the difficulties the body faces in maintaining fluids at a constant pH.

Through various activities, students will learn the importance pH plays in the chemical reactions necessary for biological activities, including growth and development, tissue repair and cell activity.

- Inquiry-based approach to understanding acidity and alkalinity
- Measure the pH values of various common solutions and create a broad spectrum of colours
- Discover the range of indicators required to determine acidity and alkalinity
- **Suitable for Key Stages 3 & 4 (ages 11 to 16)**

Type	Order code	1+
Understand pH	**52-7084**	58.72

122008

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Dropper Bottles

Volcano Factory

Discover the explosive science behind the world's volcanoes with this Wild Science Erupting Volcano Crater Factory! Create flowing lava, bubbling mineral springs, volcanic bombs and colour-morphing pools, using chemistry to explore geology. Use the equipment and ingredients provided, along with the colour illustrated instruction manual to learn about the different types of volcanic eruption whilst having fun! The kit supports many aspects of the UK science curriculum, including scientific enquiry and investigative skills. It even includes your own volcanic island on which to base your experiments!

- Discover the explosive science behind the world's volcanoes
- Create flowing lava, bubbling mineral springs, volcanic bombs and colour morphing pools
- Includes equipment, ingredients and colour illustrated instruction manual
- Learn about the different types of volcanic eruption whilst having fun
- Your own volcanic island on which to base your experiments is also included
- Supports many aspects of the UK science curriculum, including scientific enquiry and investigative skills

Type	Order code	1+
Volcano Factory	**06-8642**	9.50

517627

Posters & Charts

A-Level Chemistry Posters – Set of 6

A set of 6 high quality A1 gloss posters featuring analysis, structure, bonding, enthalpy, organic chemistry and types of solids.

- Analytical Chemistry
- Atomic Structure
- Chemical Bonding
- Enthalpy
- Organic Chemistry
- The Five Types of Solid Structure
- **Supplied as a Set of 6** high quality A1 (840 x 594mm) gloss posters

Type	Order code	1+
A-Level Chemistry	**06-5469**	27.49

517773

States of Matter Posters

A set of 4 colourful and informative wall charts from Daydream depicting States of Matter. The posters are printed on high quality gloss paper and measure 841 x 594mm.

- Cost-saving compared to buying individually
- Size: A1, 841 x 594mm
- Gloss paper
- Suitable for **Key Stages 2, 3 & 4** (ages 7 to 16)

Type	Order code	1+
States of matter	**06-5609**	14.99
Solids Liquids Gases	**06-5608**	3.30
Solids	**06-5610**	3.30
Liquids	**06-5612**	3.30
Gases	**06-5614**	3.30

500722

Changing Materials Interactive CD and Posters

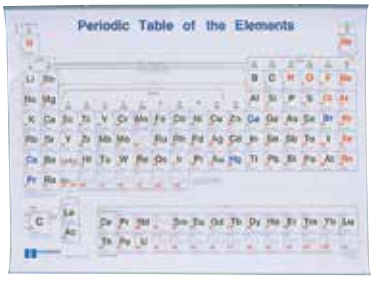
These Posters and Interactive CD look at how materials can be changed, both temporarily (physical changes) and permanently (chemical changes). Individual subject headings are Separating Mixtures, Dissolving and Changing Materials. Changing Materials gives an overview and examples of both physical and chemical changes.
Daydream Education's Interactive Content packs combine quality curriculum-based content and the latest technology to deliver a comprehensive yet easy-to-use interactive software package.
Compatible with all interactive whiteboards, projectors, tablets, PCs and Macs, the ready-made content and activities can be easily incorporated into existing lesson plans, enabling teachers to fully integrate technology into every lesson.
Packed full of presentations, notes, games and worksheets, they provide for students of all learning styles and abilities, and promote both group and independent learning.
The Posters are printed on A1 (840 x 594mm) high quality gloss paper.

- Covers 3 subject areas: Separating Mixtures, Dissolving and a Changing Materials overview
- An interactive chart for each subject
- Curriculum-based content
- Interactive quizzes
- Printable worksheets
- 'Fun Feature' for all subjects
- A1 size Posters are printed on high quality gloss paper

Type	Order code	1+
Interactive CD	**06-5477**	18.86
Posters - Set of 3	**06-5479**	11.75
Changing materials	**06-5640**	2.17

517775

Periodic Wall Chart



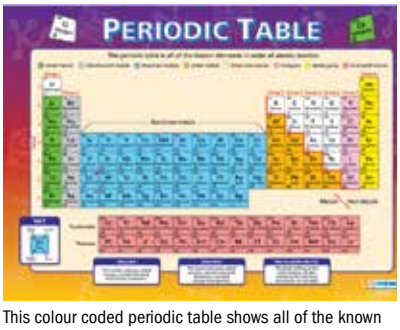
A large 126 x 96cm wall chart printed in four colours to insure easy visibility from every corner of your classroom.

- Shows all the main elements
- Durable material will withstand heavy classroom use
- Updated 2002
- Suitable for **Key Stages 3, 4 & A Level** (ages 11 to 18)

Type	Order code	1+
Periodic wall chart	**06-6554**	43.99

079110

Periodic Table Wall Chart



This colour coded periodic table shows all of the known elements in order of their atomic number.

- 841 x 594mm
- Suitable for **Key Stages 2 & 3** (ages 7 to 14)

Type	Order code	1+
Periodic table	**06-5638**	3.49

079202

Science Templates

Chemistry Stencil/Template

This stencil has the most common symbols used for creating chemistry experiment diagrams.

- Transparent for easy placement of symbols
- Holes for ring binder storage
- Template dimensions 12 x 19cm
- Suitable for **All Ages**

Type	Order code	1+
Chemistry Stencil	**06-9154**	1.17

119521

Tel: 01206 751166 Fax: 01206 751188